Appendix 7-6

Seep/Spring Inventory Data

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MAY 1 20207

DIVINGO DIL Gas & Lining

SEEP/SPRING NUMBER	pH (units)	COND. (umhos/cm)	FLOW RATE (gpm)	TEMP.	USE/REMARKS
1	7.79	962	1.5	8	claystone, wildlife
1A	7.76	1061	.5	7	sandstone, wildlife
1B			seep		
2			dry		
3	8.07	1000	.5	10	sandstone, wildlife
3A	7.68	1085	1	9	sandstone, wildlife
3B	8.01	1080	1.5	11	shale, wildlife
4	7.94	1190	2	8	
5	7.52	1058	1	6	
6			dry		
7	7.78	879	.75	8	
8	7.85	1043	<.25	20	
8A	7.97	1020	1.5	7	
9	6.45	1000	<.25	9	
9(R)			2	10	sandstone, trough
10	7.90	1046	2	15	
11	8.19	3680	<.25	17	
12A	7.81	2070	.25	10	sandstone
12B	8.12	1760	.25	11	sandstone, shale
12C	8.24	1716	.5	7	limey shale
12D	7 .96	4520	<.25	15	shale, limestone
13	7.88	1386		14	
13A	8.03	1934	<.25	14	
13B	8.06	2216	<.25	12	
13Z	7.84	1375	1	12	

MAY 1 8 2007

SEEP/SPRING NUMBER	pH (units)	COND. (umhos/cm)	FLOW RATE (gpm)	TEMP.	USE/REMARKS
14	8.24	1650	1	19	
14A	8.06	1500	1	15	
15	7.68	1045	<.25	10	
15A	7.86	1060	<.25	17	sandstone, silt
15B	7.92	1009	<.25	17	limey sandstone, silt
15C			seep		sandstone, limestone
16A	8.08	1070	4	11	
16B	7.86	1000	.25	14	
16C			seep		shale
16Z			seep		
17	8.07	1520	<.25	17	shale, limey sandstone
17A	ns		1.5	17	shale, sandstone ledge
17B	ns		.75	16	shale, sandstone ledge
18	8.06	1300	1	17	shale, limey sandstone
19A	7.59	1124	.5	7	shale, limestone, wildlife
198	7.61	1130	1.5	7	limestone, sandstone, wildlife
20	8.02	6000	<.25	10	shale, sandstone ledge
22			dry		

ns = Not Sampled

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SEEP/SPRING NUMBER	pH (units)	COND. (umhos/cm)	FLOW RATE (gpm)	TEMP.	USE/REMARKS
1	7.79	962	1.5	8	claystone, wildlife
1A	7.76	1061	.5	7	sandstone, wildlife
1B			seep		
3	8.07	1000	.5	10	sandstone, wildlife
3A	7.68	1085	1	9	sandstone, wildlife
3B	8.01	1080	1.5	11	shale, wildlife
4	7.94	1190	2	8	
5	7.52	1058		6	
6			dry		
7	7.78	8.79	.75	8	
8 (J)	7.85	1043	<.25	20	
8A	7.97	1020	1.5	7	
9	6.45	1000	<.25	9	
9 (R)	TROUGH		2	10	sandstone, trough
10	7.90	1046	2	15	
11	8.19	3680	<.25	17	
12A	7.81	2070	.25	10	sandstone
12B	8.12	1760	.25	11	sandstone, shale
12C	8.24	1716	.5	7	limey shale
12D	7.96	4520	<.25	15	shale, limestone
13	7.88	1386	1	14	
13A	8.03	1934	<.25	14	
13B	8.06	2216	<.25	12	
13Z	7.84	1375	1	12	

INCORPORATED

MAY 1 8 2007

SEEP/SPRING NUMBER	pH (units)	COND. (umhos/cm)	FLOW RATE (gpm)	TEMP.	USE/REMARKS
14			11	19	
14A	8.06	1500	1	15	
15	7.68	1045	<25	10	
15A	7.86	1060	<.25	17	sandstone, silt
15B	7.92	1009	<.25	17	limey sandstone, silt
15C			seep		sandstone, limestone
16	TROUGH		1	10	
16A	8.08	1070	4	11	
16B	7.86	1000	.25	14	
16C			seep		shale
16Z			seep		
17	8.07	1520	<.25	17	shale, limey sandstone
17A	ns		1.5	17	shale, sandstone ledge
17B	ns		.75	16	shale, sandstone ledge
18	8.06	1300	1	17	shale, limey sandstone
19A	7.59	1124	.5	7	shale, limestone, wildlife
19B	7.61	1130	1.5	7	limestone, sandstone, wildlife
20	8.02	6000	<.25	10	shale, sandstone ledge
22			dry		

MAY 1 8 2007

EARTHFAX ENGINEERING INC. 7324 SOUTH 1300 EAST Midvale, Utah 84047

CHAIN-OF-CUSTODY FORM

Sampling Company: EarthFax Engineering	Sampling Personnel: RBG, JDG, JRP
Project Name: LA POWER SPRING SURVEY	Project Number: UC 284-04
Analytical Laboratory: Chemtech	Date of Shipment/Delivery:
Method of Shipment/Delivery:	Airbill Number:

Field Sample No.	Date Sampled	Time Sampled	Sample Type	No. of Containers	Remarks
16	5-25-93		H20	3	
14	5-25-93		H ₂ O	3	
10	5-25-93	To Calledon	H ₂ 0	3	
9	5-25-93		H ₂ O	3	
1	5-25-93		H ₂ O	3	

Relinquished by:	Date:	Time:	Regained by: / /	Date:	Time:
Cul fath	S/27/93	1405	West plud	24 /20/23	2:00
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Pagained bur	 	-
		111119.	Received by:	Date:	Time:

MAY 1 8 2007

WATER SAMPLE ANALYSIS REQUEST FORM

Sampling Company: EarthFax Engineering, Inc.	Sampling Personnel: RBG, JDG, JRP
Project Name: LA POWER SPRING SURVEY	Project Number: UC 284-04
Field Sample Number: 16	Laboratory Sample Number:
Date Sampled: 5-25-93	Time Sampled:
Analytical Laboratory: Chemtech	Date of Shipment/Delivery:

Container Type	Number of Bottles	Preservative(s)	Analyses Requested
plastic	3 _	ICE	attached

Special Requirements:	

INCORPORATED
MAY 1 8 2007

WATER SAMPLE ANALYSIS REQUEST FORM

Sampling Company: EarthFax Engineering, Inc.	Sampling Personnel: RBG, JDG, JRP	
Project Name: LA POWER SPRING SURVEY	Project Number: UC 284-04	
Field Sample Number:	Laboratory Sample Number:	
Date Sampled: 5-25-93	Time Sampled:	
Analytical Laboratory: Chemtech	Date of Shipment/Delivery:	

Container Type	Number of Bottles	Preservative(s)	Analyses Requested
plastic	3	ICE	affached
	1		

Special Requirements:

INCORPORATED
MAY 1 8 2007

WATER SAMPLE ANALYSIS REQUEST FORM

Sampling Company: EarthFax Engineering, Inc.	Sampling Personnel: RBG, JDG, JRP	
Project Name: LA POWER SPRING SURVEY	Project Number: UC 284-04	
Field Sample Number:	Laboratory Sample Number:	
Date Sampled: 5-25-93	Time Sampled:	
Analytical Laboratory: Chemtech	Date of Shipment/Delivery:	

Container Type	Number of Bottles	Preservative(s)	Analyses Requested
plastic	3	ICE	aHacked
		-	

Special Requirements:	

INCORPORATED

MAY 1 8 2007

WATER SAMPLE ANALYSIS REQUEST FORM

Sampling Company: EarthFax Engineering, Inc.	Sampling Personnel: RBG, JDG, JRP		
Project Name: LA POWER SPRING SURVEY	Project Number: UC 284-04		
Field Sample Number: / O	Laboratory Sample Number:		
Date Sampled: S-25-93	Time Sampled:		
Analytical Laboratory: Chemtech	Date of Shipment/Delivery:		

Container Type	Number of Bottles	Preservative(s)	Analyses Requested
<u> Mastic</u>	3	ICE	Athached
			89900

Special Requirements:	

INCORPORATED

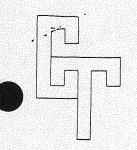
MAY 1 8 2007

WATER SAMPLE ANALYSIS REQUEST FORM

Sampling Company: EarthFax Engineering, Inc. Project Name: LA POWER SPRING SURVEY Field Sample Number: 14		ng, Inc.	Sampling Personnel: RBG, JDG, JRP		
		IVEY	Project Number: UC 284-04		
			Laboratory Sample Number:		
Data Sampled: 5	-25 - 93		Time Sampled:		
Analytical Laboratory:	: Chemtech		Date of Shipment/Delivery:		
Container Type	Number of Bottles	Preservative(s)	Analyses Requested		
Mastic	3	ICE	Attached		
Special Requirements:					

MAY 1 8 2007

Div. com Gas & Mining



ANALYTICAL LABORATORY

6100 S. STRATLER MURRAY, UTAH 84107 PHONE: (801) 262-7299 FAX: (801) 262-7378

DATE: 7-01-93

TO: EarthFax Engineering 7324 So. 1300 E. STE 100 Midvale, Utah 84047

SAMPLE ID: Lab #U096139 - LA Power-Spring Survey, #16 @ 10:00, 6-04-93

DATE SUBMITTED: 6-05-93

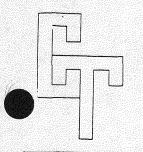
CERTIFICATE OF ANALYSIS

PARAMETER	DETECTED	DATE ANALYZED/METHOD
TDS, mg/l	638	6-10-93 EPA 160.1
Hardness as CaCO3, mg/l	310	6-17-93 EPA 130.2
Bicarbonate as HCO3, mg/l	473	6-16-93 SM17 2320B
Carbonate as CO ₃ , mg/l	10.5	6-16-93 SM17 2320B
Chloride as Cl, mg/l	19.0	6-07-93 EPA 325.3
Sulfate as SO ₄ , mg/l	137	6-11-93 SM17 4500
Sulfide as S, mg/l	0.32	6-08-93 EPA 376.1
Phosphate as PO ₄ -P, mg/l	<.01	6-14-93 SM17 4500
Nitrate as NO ₃ -N, mg/l	<.02	6-28-93 EPA 353.1
Nitrite as NO ₂ -N, mg/l	<.005	6-05-93 EPA 354.1
Ammonia as NH ₃ -N, mg/l	<1	6-11-93 SM17 4500
Fluoride as F, mg/l	0.19	6-10-93 EPA 340.2
Aluminum as Al, mg/l	0.064	6-09-93 EPA 200.7
Arsenic as As, mg/l	<.04	6-09-93 EPA 200.7
Barium as Ba, mg/l	0.079	6-09-93 EPA 200.7
Boron as B, mg/l	0.093	6-09-93 EPA 200.7
Cadmium as Cd, mg/l	<.01	6-09-93 EPA 200.7
Calcium as Ca, mg/l	37.6	6-10-93 EPA 200.7
Chromium as Cr, mg/l	<.01	6-09-93 EPA 200.7
Copper as Cu, mg/l	<.01	6-09-93 EPA 200.7

INCORPORATED

MAY 1 8 2007

Joel Workman



ANALYTICAL LABORATORY

6100 S. STRATLER MURRAY, UTAH 84107 PHONE: (801) 262-7299 FAX: (801) 262-7378

DATE: 7-01-93

TO: EarthFax Engineering 7324 So. 1300 E. STE 100

Midvale, Utah 84047

SAMPLE ID: Lab #U096138 - LA Power-Spring Survey, #14 @ 10:45, 6-04-93

DATE SUBMITTED: 6-05-93

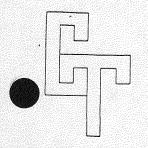
CERTIFICATE OF ANALYSIS

PARAMETER	DETECTED	DATE ANALYZED/METHOD
TDS, mg/l	1,614	6-10-93 EPA 160.1
Hardness as CaCO3, mg/l	647	6-17-93 EPA 130.2
Bicarbonate as HCO3, mg/l	568	6-16-93 SM17 2320B
Carbonate as CO3, mg/l	9.4	6-16-93 SM17 2320B
Chloride as Cl, mg/l	45.6	6-07-93 EPA 325.3
Sulfate as SO_4 , $mg/1$	756	6-11-93 SM17 4500
Sulfide as S, mg/l	<.1	6-08-93 EPA 376.1
Phosphate as PO ₄ -P, mg/l	<.01	6-14-93 SM17 4500
Nitrate as NO ₃ -N, mg/l	<.02	6-28-93 EPA 353.1
Nitrite as NO ₂ -N, mg/l	<.005	6-05-93 EPA 354.1
Ammonia as NH ₃ -N, mg/l	<1	6-11-93 SM17 4500
Fluoride as F, mg/l	0.26	6-10-93 EPA 340.2
Aluminum as Al, mg/l	0.037	6-09-93 EPA 200.7
Arsenic as As, mg/l	<.04	6-09-93 EPA 200.7
Barium as Ba, mg/l	0.022	6-09-93 EPA 200.7
Boron as B, mg/l	0.213	6-09-93 EPA 200.7
Cadmium as Cd, mg/l	<.01	6-09-93 EPA 200.7
Calcium as Ca, mg/l	60.2	6-10-93 EPA 200.7
Chromium as Cr, mg/l	<.01	6-09-93 EPA 200.7
Copper as Cu, mg/l	<.01	6-09-93 EPA 200.7

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Moel Workman



ANALYTICAL LABORATORY

6100 S. STRATLER MURRAY, UTAH 84107 PHONE: (801) 262-7299 FAX: (801) 262-7378

DATE: 7-01-93

TO: EarthFax Engineering 7324 So. 1300 E. STE 100 Midvale, Utah 84047

SAMPLE ID: Lab #U096138 - LA Power-Spring Survey, #14 @ 10:45, 6-04-93

DATE SUBMITTED: 6-05-93

CERTIFICATE OF ANALYSIS

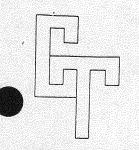
PARAMETER .	DETECTED	DATE ANALYZED/METHOD
Iron as Fe, mg/l	0.070	6-09-93 EPA 200.7
Lead as Pb, mg/l	<.02	6-09-93 EPA 200.7
Magnesium as Mg, mg/l	104	6-10-93 EPA 200.7
Manganese as Mn, mg/l	<.01	6-09-93 EPA 200.7
Mercury as Hg, mg/l	<.0002	6-09-93 EPA 245.1
Molybdenum as Mo, mg/l	<.01	6-09-93 EPA 200.7
Nickel as Ni, mg/l	<.01	6-09-93 EPA 200.7
Potassium as K, mg/l	1.4	6-10-93 EPA 200.7
Selenium as Se, mg/l	<.04	6-09-93 EPA 200.7
Sodium as Na, mg/l	276	6-10-93 EPA 200.7
Zinc as Zn, mg/l	<.01	6-09-93 EPA 200.7

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Div. of Oil, Gas & Mining

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ANALYTICAL LABORATORY

6100 S. STRATLER MURRAY. UTAH 84107 PHONE: (801) 262-7299 FAX: (801) 262-7378

DATE: 7-01-93

TO: EarthFax Engineering 7324 So. 1300 E. STE 100 Midvale, Utah 84047

SAMPLE ID: Lab #U096137 - LA Power-Spring Survey, #10 @ 10:00, 6-04-93

DATE SUBMITTED: 6-05-93

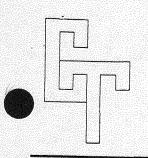
CERTIFICATE OF ANALYSIS

PARAMETER	DETECTED	DATE ANALYZED/METHOD
TDS, mg/l	694	6-10-93 EPA 160.1
Hardness as CaCO3, mg/l	471	6-17-93 EPA 130.2
Bicarbonate as HCO3, mg/l	481	6-16-93 SM17 2320B
Carbonate as CO3, mg/l	<1	6-16-93 SM17 2320B
Chloride as Cl, mg/l	11.5	6-07-93 EPA 325.3
Sulfate as SO ₄ , mg/l	202	6-11-93 SM17 4500
Sulfide as S, mg/l	<.1	6-08-93 EPA 376.1
Phosphate as PO ₄ -P, mg/l	0.034	6-14-93 SM17 4500
Nitrate as NO ₃ -N, mg/l	0.033	6-28-93 EPA 353.1
Nitrite as NO ₂ -N, mg/l	<.005	6-05-93 EPA 354.1
Ammonia as NH ₃ -N, mg/l	<1	6-11-93 SM17 4500
Fluoride as F, mg/l '	0.18	6-10-93 EPA 340.2
Aluminum as Al, mg/l	0.051	6-09-93 EPA 200.7
Arsenic as As, mg/l	<.04	6-09-93 EPA 200.7
Barium as Ba, mg/l	0.069	6-09-93 EPA 200.7
Boron as B, mg/l	0.038	6-09-93 EPA 200.7
Cadmium as Cd, mg/l	<.01	6-09-93 EPA 200.7
Calcium as Ca, mg/l	68.9	6-10-93 EPA 200.7
Chromium as Cr, mg/l	<.01	6-09-93 EPA 200.7
Copper as Cu, mg/l	<.01	6-09-93 EPA 200.7
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ANALYTICAL LABORATORY

6100 S. STRATLER MURRAY, UTAH 84107 PHONE: (801) 262-7299 FAX: (801) 262-7378

DATE: 7-01-93

TO: EarthFax Engineering 7324 So. 1300 E. STE 100 Midvale, Utah 84047

SAMPLE ID: Lab #U096137 - LA Power-Spring Survey, #10 @ 10:00, 6-04-93

DATE SUBMITTED: 6-05-93

CERTIFICATE OF ANALYSIS

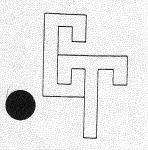
PARAMETER	DETECTED	DATE ANALYZEI	/METHOD
Iron as Fe, mg/l	0.080	6-09-93	EPA 200.7
Lead as Pb, mg/l	<.02	6-09-93	EPA 200.7
Magnesium as Mg, mg/l	64.4	6-10-93	EPA 200.7
Manganese as Mn, mg/l	0.056	6-09-93	EPA 200.7
Mercury as Hg, mg/l	<.0002	6-09-93	EPA 245.1
Molybdenum as Mo, mg/l	<.01	6-09-93	EPA 200.7
Nickel as Ni, mg/l	<.01	6-09-93	EPA 200.7
Potassium as K, mg/l	1.5	6-10-93	EPA 200.7
Selenium as Se, mg/l	<.04	6-09-93	EPA 200.7
Sodium as Na, mg/l	63.4	6-10-93	EPA 200.7
Zinc as Zn, mg/l	<.01	6-09-93	EPA 200.7

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Div. of Oil, Gas & Mining

Joel Workman



ANALYTICAL LABORATORY

6100 S. STRATLER MURRAY. UTAH 84107 PHONE: (801) 262-7299 FAX: (801) 262-7378

DATE: 7-01-93

TO: EarthFax Engineering
7324 So. 1300 E. STE 100
Midvale, Utah 84047

SAMPLE ID: Lab #U096136 - LA Power-Spring Survey, #9 @ 10:00, 6-04-93

DATE SUBMITTED: 6-05-93

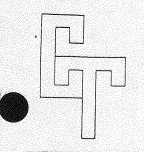
CERTIFICATE OF ANALYSIS

DETECTED	DATE ANALYZED/METHOD
589	6-10-93 EPA 160.1
376	6-17-93 EPA 130.2
495	6-16-93 SM17 2320B
2.3	6-16-93 SM17 2320B
12.1	6-07-93 EPA 325.3
119	6-11-93 SM17 4500
0.18	6-08-93 EPA 376.1
<.01	6-14-93 SM17 4500
<.02	6-28-93 EPA 353.1
<.005	6-05-93 EPA 354.1
<1	6-11-93 SM17 4500
0.18	6-10-93 EPA 340.2
0.041	6-09-93 EPA 200.7
<.04	6-09-93 EPA 200.7
0.114	6-09-93 EPA 200.7
0.052	6-09-93 EPA 200.7
<.01	6-09-93 EPA 200.7
55.5	6-10-93 EPA 200.7
<.01	6-09-93 EPA 200.7
<.01	6-09-93 EPA 200.7
	589 376 495 2.3 12.1 119 0.18 <.01 <.02 <.005 <1 0.18 0.041 <.04 0.114 0.052 <.01 55.5 <.01

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MAY 1 8 2007

Moel Workman



ANALYTICAL LABORATORY

6100 S. STRATLER MURRAY, UTAH 84107 PHONE: (801) 262-7299 FAX: (801) 262-7378

DATE: 7-01-93

TO: EarthFax Engineering

7324 So. 1300 E. STE 100 Midvale, Utah 84047

SAMPLE ID: Lab #U096136 - LA Power-Spring Survey, #9 @ 10:00, 6-04-93

DATE SUBMITTED: 6-05-93

CERTIFICATE OF ANALYSIS

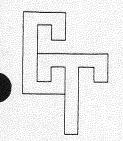
DETECTED	DATE ANALYZED	/METHOD
0.058	6-09-93	EPA 200.7
<.02	6-09-93	EPA 200.7
51.8	6-10-93	EPA 200.7
0.040	6-09-93	EPA 200.7
<.0002	6-09-93	EPA 245.1
<.01	6-09-93	EPA 200.7
<.01	6-09-93	EPA 200.7
0.80	6-10-93	EPA 200.7
<.04	6-09-93	EPA 200.7
72.3	6-10-93	EPA 200.7
<.01	6-09-93	EPA 200.7
	0.058 <.02 51.8 0.040 <.0002 <.01 <.01 0.80 <.04 72.3	DETECTED ANALYZED 0.058 6-09-93 <.02

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MAY 1 8 2007

DIV. of Oil, Gas & Mining

Joel Workman



ANALYTICAL LABORATORY

6100 S. STRATLER MURRAY. UTAH 84107 PHONE: (801) 262-7299 FAX: (801) 262-7378

DATE: 7-01-93

TO: EarthFax Engineering 7324 So. 1300 E. STE 100 Midvale, Utah 84047

SAMPLE ID: Lab #U096135 - LA Power-Spring Survey, #1 @ 10:00, 6-04-93

DATE SUBMITTED: 6-05-93

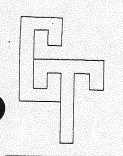
CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	DETECTED	DATE ANALYZED/METHOD
TDS, mg/l	435	6-10-93 EPA 160.1
Hardness as CaCO3, mg/l	279	6-17-93 EPA 130.2
Bicarbonate as HCO3, mg/l	475	6-16-93 SM17 2320B
Carbonate as CO3, mg/l	1.2	6-16-93 SM17 2320B
Chloride as Cl, mg/l	7.3	6-07-93 EPA 325.3
Sulfate as SO ₄ , mg/l	61.7	6-11-93 SM17 4500
Sulfide as S, mg/l	0.21	6-08-93 EPA 376.1
Phosphate as PO ₄ -P, mg/l	<.01	6-14-93 SM17 4500
Nitrate as NO ₃ -N, mg/l	0.036	6-28-93 EPA 353.1
Nitrite as NO ₂ -N, mg/l	<.005	6-05-93 EPA 354.1
Ammonia as NH ₃ -N, mg/l	<1	6-11-93 SM17 4500
Fluoride as F, mg/l	0.16	6-10-93 EPA 340.2
Aluminum as Al, mg/l	0.060	6-09-93 EPA 200.7
Arsenic as As, mg/l	<.04	6-09-93 EPA 200.7
Barium as Ba, mg/l	0.103	6-09-93 EPA 200.7
Boron as B, mg/l	0.063	6-09-93 EPA 200.7
Cadmium as Cd, mg/l	<.01	6-09-93 EPA 200.7
Calcium as Ca, mg/l	41.7	6-10-93 EPA 200.7
Chromium as Cr, mg/l	<.01	6-09-93 EPA 200.7
Copper as Cu, mg/l	<.01	6-09-93 EPA 200.7

INCORPORATED

MAY 1 8 2007

Joel Workman



ANALYTICAL LABORATORY

6100 S. STRATLER MURRAY, UTAH 84107 PHONE: (801) 262-7299 FAX: (801) 262-7378

DATE: 7-01-93

TO: EarthFax Engineering
7324 So. 1300 E. STE 100
Midvale, Utah 84047

SAMPLE ID: Lab #U096135 - LA Power-Spring Survey, #1 @ 10:00, 6-04-93

DATE SUBMITTED: 6-05-93

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	DETECTED	DATE ANALYZED/METHOD
Iron as Fe, mg/l	0.080	6-09-93 EPA 200.7
Lead as Pb, mg/l	<.02	6-09-93 EPA 200.7
Magnesium as Mg, mg/l	37.5	6-10-93 EPA 200.7
Manganese as Mn, mg/l	<.01	6-09-93 EPA 200.7
Mercury as Hg, mg/l	<.0002	6-09-93 EPA 245.1
Molybdenum as Mo, mg/l	<.01	6-09-93 EPA 200.7
Nickel as Ni, mg/l	<.01	6-09-93 EPA 200.7
Potassium as K, mg/l	0.47	6-10-93 EPA 200.7
Selenium as Se, mg/l	<.04	6-09-93 EPA 200.7
Sodium as Na, mg/l	41.3	6-10-93 EPA 200.7
Zinc as Zn, mg/l	<.01	6-09-93 EPA 200.7

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// Joel Workman

INTERMOUNTAIN POWER AGENCY SEEP AND SPRING SURVEY

October 13, 1993

SEEP/SPRING NUMBER	pH (units)	COND. (umhos/cm)	FLOW RATE (gpm)	TEMP.	USE/REMARKS
1	8.11	659	<.25	8	claystone, wildlife
1A			Dry		sandstone, wildlife
1B			Dry		
3	8.19	855	<.25	8	sandstone, wildlife
3A	7.87	743	.5	11	sandstone, wildlife
3B	7.80	750	.25	10	shale, wildlife
4			Dry		
4A	8.07	786	.5	8	
5			Dry		
5A			Dry		
6	7.55	894	.25	7	
6A .			Dry		
7	8.36	1040	<.25	7	
7A	7.67	784	.5	9	
8	7.74	789	.5	8	
8A	7.78	764	.25	9	
8B	7.88	895	<.25	10	
9	8.20	885	1	6	sandstone, trough
10	7.63	855	<.25	10	<u> </u>
11	8.15	1180	2	12	
12A	8.07	1138	.25	9	sandstone
128	8.38	1148	<.25	11	sandstone, shale
12C	8.27	1161	.5	10	limey shale

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INTERMOUNTAIN POWER AGENCY SEEP AND SPRING SURVEY

October 13, 1993

SEEP/SPRING NUMBER	pH (units)	COND. (umhos/cm)	FLOW RATE (gpm)	TEMP.	USE/REMARKS
12D	8.24	1174	.5	11	shale, limestone
13	8.01	1151	.25	10	
13A			Dry		
13B	8.57	1162	<.25	11	
13Z	8.14	1253	<.25	13	
14	7.89	1183	<.25	11	tank
14A			Dry		
15			Dry		
15A	8.22	1025	.5	8	sandstone, silt
15B			Seep		limey sandstone, silt
15C			Seep		sandstone, limestone
16	8.07	945	.5	8	
16A	8.29	925	.25	8	
16B			Dry		
16C			Dry		shale
17	8.18	1409	<.25	10	shale, limey sandstone
17A			Dry		shale, sandstone ledge
18			Dry		shale, sandstone ledge
18A	8.47	873	<.25	10	shale, limey sandstone
19A	7.86	1104	.25	9	shale, limestone, wildlife
19B	7.62	879	<.25	6	limey sandstone, wildlife
19C	7.93	782	.25	7	shale, sandstone ledge
20	######################################		Dry		<u>∀</u>
22	8.37	1078	.25	10	,

INCORPORATED

10/27/93

CHAIN-OF-CUSTODY FORM

Sampling Company: (-/*/////////	Sampling Personnel: IGG
Project Name: LI FLINEX SEEP & STEWNA	Project Number: UC 27.4.0Z
Analytical Laboratory: Chemberh	Date of Shipment/Delivery: /()-/5-7-7
Method of Shipment/Delivery: hind	Airbill Number:

Field Sample No.	Date Sampled	Time Sampled	Sample Type	No. of Containers	Remarks
5-1	10-15-93	1200	wale	4	SEE ATTACHED SHIETS
5-9	10-13-93	1205	wolu	4	Es requerted Arabyen
5-10	10-13-99	1206	Woder	1	,
5-14	10-13-594	1230	Worler	4	
5-16	10-13-943	1300	Worker	4	
			- Anna Anna Anna Anna Anna Anna Anna Ann		

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
	(* 5a3	2:10 pm	Ki : 'u	11.75	1 = 10
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
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Relinquished by:	Date:	Time:	Received by:	Date:	Time:
	<u>_ </u>				

INCORPORATED

MAY 1 8 2007

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Throughn Injinesrin . The. 75%, So. Union Farit Lyenus .idvale, UT 84047 (801) 561-1555

WATER SAMPLE ANALYSIS REQUEST FORM

Sampling Company: ENTTITAX	Sampling Personnel: 1867
Project Name: (A POZIER SEER & SARING	Project Number: UC 284, 02
Field Sample Number: 5-1	Laboratory Sample Number:
Date Sampled: 10 - 13 - 9 3	Time Sampled: /ことの
Analytical Laboratory: Charlech	Date of Shipment/Delivery: 10-15-93

Bottle Type	Number of Bottles	Preservative(s)	Analyses Requested
Plantic	4		See Attacked Sheets

Special Requirements			
abasis: Hedanement			
	Annual Control of the		

INCORPORATED

MAY 1 8 2007

Dirthex An Incoring, Inc. 7524 So. Union Park Avenue Lidvale, UP 54047 (801) 561-1555

WATER SAMPLE ANALYSIS REQUEST FORM

Sampling Company: E/KT/F/	Sampling Personnel: REG
Project Name: LA POWJEK SEEK & STYING	Project Number: (10 284, C2
Field Sample Number: ≤ -9	Laboratory Sample Number:
Date Sampled: //) - / 3 - 9 3	Time Sampled: /205
Analytical Laboratory: Chemilech	Date of Shipment/Delivery: 10 -15-93

Bottle Type	Number of Bottles	Preservative(s)	Analyses Requested
DASTIC	4		Sec Attached Sheets

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Special Requirements:	
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MAY 1 8 2007

416

Harthrax Engineering, Inc. 7324 co. Union rark ivenue .idvale, UT 64047 (801) 561-1555

WATER SAMPLE ANALYSIS REQUEST FORM

Sampling Company: [-] MTITAX	Sampling Personnel: KRC7
Project Name: (A POUNT SINES SAVING	Project Number: /(C 2.84, O Z
Field Sample Number: 5 - 10	Laboratory Sample Number:
Date Sampled: 10-13-93	Time Sampled: 1206
Analytical Laboratory: Chemicah	Date of Shipment/Delivery: 10-15-93

Bottle Type	Number of Bottles	Preservative(s)	Analyses Requested
Plasfic	4		See Affriched Sheets

Special Requirements:	

INCORPORATED MAY 1 8 2007

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131 on the English Ing., 1116.
7524 So. onion Para Avenue
131avale, 07 34047
(601) 501-1555

WATER SAMPLE ANALYSIS REQUEST FORM

Sampling Company: Esthital	Sampling Personnel: 186
Project Name: / A Crussi Gire & Chir.	Project Number: 11C 284.02
Field Sample Number: 5 - 14	Laboratory Sample Number:
Date Sampled: 10 - 13 - 93	Time Sampled: /230
Analytical Laboratory: Organized	Date of Shipment/Delivery: 10-19-93

Bottle Type	Number of Bottles	Preservative(s)	Analyses Requested
Floratic	4		See Attached Sierts
			· (-), ; <u>.</u>

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Special Requirements	

MAY 1 8 2007

Tarthram Engineering, Enc. 7524 So. Union Parm Evenue Endvale, UT 6454/ (501) 561-1555

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WATER SAMPLE ANALYSIS REQUEST FORM

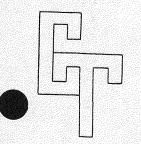
Sampling Company: Forth FAY	Sampling Personnel: RPG
Project Name: LA FULLY SLEEP & STIFFER	Project Number: 1.4.0.2.84.02
Field Sample Number: 5-/6	Laboratory Sample Number:
Date Sampled: 10-13-93	Time Sampled: 1300
Analytical Laboratory: Chim Hech	Date of Shipment/Delivery: 10.15-93

Bottle Type	Number of Bottles	Preservative(s)	Analyses Requested
Plantic	4		See A HACKED Shorts

Special Requirements:	

MAY 1 8 2007

Div. of Oil, Gas a ...



ANALYTICAL LABORATORY

6100 S. STRATLER MURRAY, UTAH 84107 PHONE: (801) 262-7299 FAX: (801) 262-7378

DATE: 11-12-93

TO: Earthfax Engineering

7324 S. Union Park Ave. STE 100

Midvale, Utah 84047

SAMPLE ID: Lab #U100854, LA Power Seep & Spring, S-1 INCORPORATED

DATE SAMPLED: 10-13-93

MAY 1 8 2007

DATE SUBMITTED: 10-15-93

CERTIFICATE OF ANALYSIS

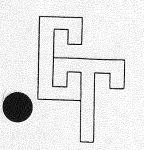
Div. of Oil, Gas & Mining

<u>PARAMETER</u>	<u>DETECTED</u>	DATE ANAL	YZED/METHOD
TDS, mg/1	394	10-20-93	EPA 160.1
Hardness as CaCO ₃ , mg/l	281	10-22/10-	25 EPA 130.2
Bicarbonate as HCO ₃ , mg/1	372	10-27-93	SM17 2320B
Carbonate as CO₃, mg/l	<1	10-27-93	SM17 2320B
Chloride as C1, mg/1	18.5	11-04-93	EPA 325.3
Sulfate as SO ₄ , mg/1	59.3	11-03-93	EPA 375.4
Sulfide as S, mg/l	<.5	10-19-93	EPA 376.1
Phosphate as PO ₄ , mg/1	0.205	10-19-93	SM17 4500E
$NO_3-N + NO_2-N$, mg/1	<.02	10-21-93	EPA 353.1
*Nitrite as NO_2 -N, mg/1	<.01	10-19-93	EPA 354.1
Ammonia as NH ₃ -N, mg/1	<.2	10-27-93	SM17 4500G
Fluoride as F, mg/1	0.19	10-24-93	EPA 340.2
Aluminum as Al, mg/l	0.133	10-21-93	EPA 200.7
Arsenic as As, mg/l	<.04	10-21-93	EPA 200.7
Barium as Ba, mg/l	0.10	10-21-93	EPA 200.7
Boron as B, mg/l	0.082	10-21-93	EPA 200.7
Cadmium as Cd, mg/1	<.01	10-21-93	EPA 200.7
Calcium as Ca, mg/l	43.3	10-22-93	EPA 200.7
Chromium as Cr, mg/l	<.01	10-21-93	EPA 200.7
Copper as Cu, mg/l	<.01	10-21-93	EPA 200.7

NOTE: Sample temp. when submitted was 9.1°C on ice.

* = Sample was submitted past holding time for this parameter.

Woel Workman



ANALYTICAL LABORATORY

6100 S. STRATLER MURRAY, UTAH 84107 PHONE: (801) 262-7299 FAX: (801) 262-7378

DATE: 11-12-93

TO: Earthfax Engineering

7324 S. Union Park Ave. STE 100

Midvale, Utah 84047

SAMPLE ID: Lab #U100854, LA Power Seep & Spring, S-1

DATE SAMPLED: 10-13-93
DATE SUBMITTED: 10-15-93

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	DETECTED	DATE ANAL	YZED/METHOD
Iron as Fe, mg/l	0.125	10-21-93	EPA 200.7
Lead as Pb, mg/1	<.02	10-21-93	EPA 200.7
Magnesium as Mg, mg/l	37.6	10-22-93	EPA 200.7
Manganese as Mn, mg/l	0.015	10-21-93	EPA 200.7
Mercury as Hg, mg/1	<.0002	10-20-93	EPA 245.1
Molybdenum as Mo, mg/l	<.04	10-21-93	EPA 200.7
Nickel as Ni, mg/1	<.01	10-21-93	EPA 200.7
Potassium as K, mg/l	0.736	10-22-93	EPA 200.7
Selenium as Se, mg/l	<.04	10-21-93	EPA 200.7
Sodium as Na, mg/l	41.3	10-21-93	EPA 200.7
Zinc as Zn, mg/l	<.01	10-22-93	EPA 200.7

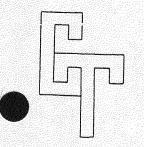
NOTE: Sample temp. when submitted was 9.1°C on ice.

INCORPORATED

MAY 1 8 2007

Div. of Oil, Gas & Mining

Joel Workman



ANALYTICAL LABORATORY

6100 S. STRATLER MURRAY, UTAH 84107 PHONE: (801) 262-7299 FAX: (801) 262-7378

DATE: 11-12-93

TO: Earthfax Engineering

7324 S. Union Park Ave. STE 100

Midvale, Utah 84047

SAMPLE ID: Lab #U100855, LA Power Seep & Spring, S-9

INGURPORATED

DATE SAMPLED: 10-13-93
DATE SUBMITTED: 10-15-93

MAY 1 8 2007

CERTIFICATE OF ANALYSIS

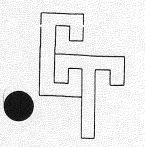
DW. of Oil, Gas & Minings

<u>PARAMETER</u>	<u>DETECTED</u>	DATE ANALYZED/METHOD	
TDS, mg/1	568	10-20-93 EPA 160.1	
Hardness as CaCO ₃ , mg/l	381	10-22/10-25 EPA 130.2	
Bicarbonate as HCO ₃ , mg/l	501	10-27-93 SM17 2320B	
Carbonate as CO ₃ , mg/l	1.2	10-27-93 SM17 2320B	
Chloride as C1, mg/1	13.9	11-04-93 EPA 325.3	
Sulfate as SO4, mg/l	99.6	11-03-93 EPA 375.4	
Sulfide as S, mg/l	<.5	10-19-93 EPA 376.1	
Phosphate as PO ₄ , mg/1	0.014	10-19-93 SM17 4500E	
$NO_3-N + NO_2-N, mg/1$	<.02	10-21-93 EPA 353.1	
*Nitrite as NO ₂ -N, mg/l	<.01	10-19-93 EPA 354.1	
Ammonia as NH ₃ -N, mg/1	<.2	10-27-93 SM17 4500G	
Fluoride as F, mg/l	0.18	10-24-93 EPA 340.2	
Aluminum as Al, mg/l	<.1	10-21-93 EPA 200.7	
Arsenic as As, mg/l	<.04	10-21-93 EPA 200.7	
Barium as Ba, mg/l	0.114	10-21-93 EPA 200.7	
Boron as B, mg/1	0.028	10-21-93 EPA 200.7	
Cadmium as Cd, mg/l	<.01	10-21-93 EPA 200.7	
Calcium as Ca, mg/1	60.2	10-22-93 EPA 200.7	
Chromium as Cr, mg/]		10-21-93 EPA 200.7	
Copper as Cu, mg/1	<.01	10-21-93 EPA 200.7	
MOTE 6			

NOTE: Sample temp. when submitted was 9.1°C on ice.

* = Sample was submitted past holding time for this parameter.

Joel Workman/



ANALYTICAL LABORATORY

6100 S. STRATLER MURRAY, UTAH 84107 PHONE: (801) 262-7299 FAX: (801) 262-7378

DATE: 11-12-93

TO: Earthfax Engineering

7324 S. Union Park Ave. STE 100

Midvale, Utah 84047

SAMPLE ID: Lab #U100855, LA Power Seep & Spring, S-9

DATE SAMPLED: 10-13-93
DATE SUBMITTED: 10-15-93

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	DATE ANALYZED/N	<u>1ETHOD</u>
Iron as Fe, mg/l	0.064	10-21-93 EPA 2	200.7
Lead as Pb, mg/l	<.02	10-21-93 EPA 2	200.7
Magnesium as Mg, mg/1	52.9	10-22-93 EPA 2	200.7
Manganese as Mn, mg/1	0.022	10-21-93 EPA 2	200.7
Mercury as Hg, mg/1	<.0002	10-20-93 EPA 2	245.1
Molybdenum as Mo, mg/l	<.04	10-21-93 EPA 2	00.7
Nickel as Ni, mg/l	<.01	10-21-93 EPA 2	00.7
Potassium as K, mg/l	1.12	10-22-93 EPA 2	00.7
Selenium as Se, mg/l	<.04	10-21-93 EPA 2	00.7
Sodium as Na, mg/l	68.5	10-21-93 EPA 2	00.7
Zinc as Zn, mg/l	<.01	10-22-93 EPA 2	00.7

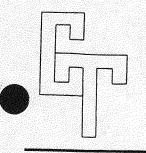
NOTE: Sample temp. when submitted was 9.1°C on ice.

INCORPORATED

MAY 1 8 2007

Div. of Oil, Gas & Mining

Soel Workman



ANALYTICAL LABORATORY

6100 S. STRATLER MURRAY, UTAH 84107 PHONE: (801) 262-7299 FAX: (801) 262-7378

DATE: 11-12-93

TO: Earthfax Engineering

7324 S. Union Park Ave. STE 100

Midvale, Utah 84047

SAMPLE ID: Lab #U100856, LA Power Seep & Spring, S-10 INCORPORATED

DATE SAMPLED: 10-13-93

MAY 1 8 2007

DATE SUBMITTED: 10-15-93

CERTIFICATE OF ANALYSIS

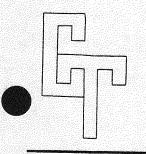
Div. of Oil, Gas & Mining

<u>PARAMETER</u>	DETECTED	DATE ANAL	YZED/METHOD
TDS, mg/l	630		EPA 160.1
Hardness as CaCO ₃ , mg/1	455	10-22/10-	25 EPA 130.2
Bicarbonate as HCO ₃ , mg/l	500	10-27-93	SM17 2320B
Carbonate as CO ₃ , mg/l	<1.0	10-27-93	SM17 2320B
Chloride as C1, mg/1	11.8	11-04-93	EPA 325.3
Sulfate as SO ₄ , mg/l	184	11-03-93	EPA 375.4
Sulfide as S, mg/l	<.5	10-19-93	EPA 376.1
Phosphate as PO ₄ , mg/1	0.060	10-19-93	SM17 4500E
$NO_3-N + NO_2-N, mg/7$	0.132	10-21-93	EPA 353.1
*Nitrite as NO₂-N, mg/l	<.01	10-19-93	EPA 354.1
Ammonia as NH ₃ -N, mg/1	<.2	10-27-93	SM17 4500G
Fluoride as F, mg/l	0.16	10-24-93	EPA 340.2
Aluminum as Al, mg/l	0.793	10-21-93	EPA 200.7
Arsenic as As, mg/l	<.04	10-21-93	EPA 200.7
Barium as Ba, mg/l	0.040	10-21-93	EPA 200.7
Boron as B, mg/1	0.085	10-21-93	EPA 200.7
Cadmium as Cd, mg/l	<.01	10-21-93	EPA 200.7
Calcium as Ca, mg/l	76.7	10-22-93	EPA 200.7
Chromium as Cr, mg/l	<.01	10-21-93	EPA 200.7
Copper as Cu, mg/l	<.01	10-21-93	EPA 200.7

NOTE: Sample temp. when submitted was 9.1°C on ice.

* = Sample was submitted past holding time, for, this parameter.

Joel Workman



ANALYTICAL LABORATORY

6100 S. STRATLER MURRAY, UTAH 84107 PHONE: (801) 262-7299 FAX: (801) 262-7378

DATE: 11-12-93

TO: Earthfax Engineering

7324 S. Union Park Ave. STE 100

Midvale, Utah 84047

SAMPLE ID: Lab #U100856, LA Power Seep & Spring, S-10

DATE SAMPLED: 10-13-93
DATE SUBMITTED: 10-15-93

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	DETECTED	DATE ANAL	YZED/METHOD
Iron as Fe, mg/l	0.775	10-21-93	EPA 200.7
Lead as Pb, mg/1	<.02	10-21-93	EPA 200.7
Magnesium as Mg, mg/l	58.6	10-22-93	EPA 200.7
Manganese as Mn, mg/l	0.077	10-21-93	EPA 200.7
Mercury as Hg, mg/l	<.0002	10-20-93	EPA 245.1
Molybdenum as Mo, mg/l	<.04	10-21-93	EPA 200.7
Nickel as Ni, mg/l	<.01	10-21-93	EPA 200.7
Potassium as K, mg/l	1.20	10-22-93	EPA 200.7
Selenium as Se, mg/l	<.04	10-21-93	EPA 200.7
Sodium as Na, mg/l	60.9	10-21-93	EPA 200.7
Zinc as Zn, mg/l	<.01	10-22-93	EPA 200.7

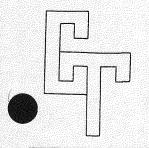
NOTE: Sample temp. when submitted was 9.1°C on ice.

INCORPORATED

MAY 1 8 2007

Div. of Oil, Gas & Mining

Jul Workman Joel Workman



ANALYTICAL LABORATORY

6100 S. STRATLER MURRAY, UTAH 84107 PHONE: (801) 262-7299 FAX: (801) 262-7378

DATE: 11-12-93

TO: Earthfax Engineering

7324 S. Union Park Ave. STE 100

Midvale, Utah 84047

SAMPLE ID: Lab #U100857, LA Power Seep & Spring, S-14

DATE SAMPLED: 10-13-93

DATE SUBMITTED: 10-15-93

INCORPORATED

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Div. of Oil, Gas & Mining

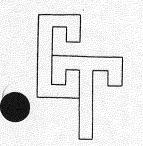
CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	DETECTED	DATE ANAL	YZED/METHOD
TDS, mg/1	1,500		EPA 160.1
Hardness as CaCO ₃ , mg/1	599		25 EPA 130.2
Bicarbonate as HCO3, mg/1	555		SM17 2320B
Carbonate as CO ₃ , mg/1	<1.0		SM17 2320B
Chloride as Cl, mg/l	63.2		EPA 325.3
Sulfate as SO ₄ , mg/1	679		EPA 375.4
Sulfide as S, mg/1	<.5		EPA 376.1
Phosphate as PO ₄ , mg/1	0.011	10-19-93	SM17 4500E
$NO_3-N + NO_2-N$, mg/1	<.02	10-21-93	EPA 353.1
*Nitrite as NO ₂ -N, mg/l	<.01	10-19-93	EPA 354.1
Ammonia as NH ₃ -N, mg/1	<.2	10-27-93	SM17 4500G
Fluoride as F, mg/l	0.26	10-24-93	EPA 340.2
Aluminum as Al, mg/l	<.1	10-21-93	EPA 200.7
Arsenic as As, mg/l	<.04	10-21-93	EPA 200.7
Barium as Ba, mg/l	0.017	10-21-93	EPA 200.7
Boron as B, mg/]	0.233	10-21-93	EPA 200.7
Cadmium as Cd, mg/1	<.01	10-21-93	EPA 200.7
Calcium as Ca, mg/l	60.4	10-22-93	EPA 200.7
Chromium as Cr, mg/l	<.01		EPA 200.7
Copper as Cu, mg/1	<.01		EPA 200.7
NOTE C1-4			

NOTE: Sample temp. when submitted was 9.1°C on ice.

* = Sample was submitted past holding time for this parameter.

Joel Workman



ANALYTICAL LABORATORY

6100 S. STRATLER MURRAY, UTAH 84107 PHONE: (801) 262-7299 FAX: (801) 262-7378

DATE: 11-12-93

TO: Earthfax Engineering

7324 S. Union Park Ave. STE 100

Midvale, Utah 84047

SAMPLE ID: Lab #U100857, LA Power Seep & Spring, S-14

DATE SAMPLED: 10-13-93
DATE SUBMITTED: 10-15-93

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	DETECTED	DATE ANALY	ZED/METHOD
Iron as Fe, mg/]	0.032	10-21-93	EPA 200.7
Lead as Pb, mg/1	<.02	10-21-93	EPA 200.7
Magnesium as Mg, mg/l	98.3	10-22-93	EPA 200.7
Manganese as Mn, mg/l	<.01	10-21-93	EPA 200.7
Mercury as Hg, mg/l	<.0002	10-20-93	EPA 245.1
Molybdenum as Mo, mg/l	<.04	10-21-93	EPA 200.7
Nickel as Ni, mg/l	<.01	10-21-93	EPA 200.7
Potassium as K, mg/l	1.89	10-22-93	EPA 200.7
Selenium as Se, mg/l	<.04	10-21-93	EPA 200.7
Sodium as Na, mg/1	270	10-21-93	EPA 200.7
Zinc as Zn, mg/l	<.01	10-22-93	EPA 200.7

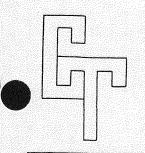
NOTE: Sample temp. when submitted was 9.1°C on ice.

INCORPORATED

MAY 1 8 2007

Div. of Oil, Gas & Mining

Jul Workman



ANALYTICAL LABORATORY

6100 S. STRATLER MURRAY, UTAH 84107 PHONE: (801) 262-7299 FAX: (801) 262-7378

DATE: 11-12-93

TO: Earthfax Engineering
7324 S. Union Park Ave. STE 100
Midvale, Utah 84047

SAMPLE ID: Lab #U100858, LA Power Seep & Spring, S-16

DATE SAMPLED: 10-13-93
DATE SUBMITTED: 10-15-93

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	DATE ANALY	YZED/METHOD
Iron as Fe, mg/l	0.060	10-21-93	EPA 200.7
Lead as Pb, mg/1	<.02	10-21-93	EPA 200.7
Magnesium as Mg, mg/l	52.2	10-22-93	EPA 200.7
Manganese as Mn, mg/1	<.01	10-21-93	EPA 200.7
Mercury as Hg, mg/1	<.0002	10-20-93	EPA 245.1
Molybdenum as Mo, mg/l	<.04	10-21-93	EPA 200.7
Nickel as Ni, mg/l	<.01	10-21-93	EPA 200.7
Potassium as K, mg/1	0.979	10-22-93	EPA 200.7
Selenium as Se, mg/1	<.04	10-21-93	EPA 200.7
Sodium as Na, mg/l	103	10-21-93	EPA 200.7
Zinc as Zn, mg/l	<.01	10-22-93	EPA 200.7

NOTE: Sample temp. when submitted was 9.1°C on ice.

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Div. of Oil, Gas & Mining

Jul Workman

INTERMOUNTAIN POWER AGENCY SEEP AND SPRING SURVEY

May 11-12, 1994

SEEP/SPRING NUMBER	pH (units)	COND. (umhos/cm)	FLOW RATE (gpm)	TEMP.	USE/REMARKS
1	7.61	657	.5	10	claystone, wildlife
1A	6.76	701	.25	6	sandstone, wildlife
1B			seep		
3	7.88	722	<.25	13	sandstone, wildlife
ЗА	7.35	632	.5	8	sandstone, wildlife
3B	7.40	613	.25	10	shale, wildlife
4			1	6	
4 A	7.40	658			
5	7.40	753	.25	6	
5A					
6			seep		
6A					
7	7.50	654	.25	7	
7A					
8	7.74	7.49	<.25	7	
8A					
8B					
9	7.95	806	.5	12	sandstone, trough
10	7.79	922	.25	7	· ·
11	8.16	1074	2	12	
12A	7.78	2040	.25	8	sandstone
12B	8.02	1785	.25	9	sandstone, shale
12C	8.15	1721	.5	9	limey shale

MAY 1 8 2007

INTERMOUNTAIN POWER AGENCY SEEP AND SPRING SURVEY

May 11-12, 1994

SEEP/SPRING NUMBER	pH (units)	COND. (umhos/cm)	FLOW RATE (gpm)	TEMP. (c)	USE/REMARKS
12D			seep		shale, limestone
13	8.01	1320	1	12	
13A					
13B	8.33	1270	2	12	
13Z			seep		
14	7.77	1730	.25	12.5	tank
14A			dry		
15			dry		
15A	7.75	849	.25	8	sandstone, silt
15B			dry		limey sandstone, silt
15C			seep		sandstone, limestone
16	7.94	909	.25	10.5	
16A	7.94	901	.25	14	
16B			dry		
16C			dry		shale
17	8.06	1110	<.25	10	shale, limey sandstone
17A			seep		shale, sandstone ledge
18	8.22	835	.5	15	shale, sandstone ledge
18A					shale, limey sandstone
19A	7.87	825	.25	10	shale, limestone, wildlife
19B	7.89	840	.5	8	limey sandstone, wildlife
190	7.96	777	.5	10	shale, sandstone ledge
20			seep		
22	8.02	1004	<.25	11	

INCORPORATED

EARTHFAX ENGINEERING INC. 7324 SOUTH 1300 EAST Midvale, Utah 84047

CHAIN-OF-CUSTODY FORM

Sampling Company: EarthFax Engineering Inc.	Sampling Personnel: JRP, CDH, RBG
Project Name: IPA Seep & Spring Survey	Project Number: UC-284-07
Analytical Laboratory: Chemtech	Date of Shipment/Delivery: 5-13-94
Method of Shipment/Delivery: In person	Airbill Number: NA

Field Sample No.	Date Sampled	Time Sampled	Sample Type	No. of Containers	Remarks
HC-2	5-12-94	1240	H2O	4	
HC-9	5-12-94	1000	H2O	4	
HC-11	5-12-94	1355	H2O	4	
HC-13	5-12-94	1440	H20	4	
HC-18	5-12-94	1116	H20	4	
HCSW-1	5-12-94	1300	H2O	4	
1	5-12-94	0800	H2O	4	
9	5-12-94	1000	H2O	4	
10 SLB	5-12-94	0730	H2O	4	
14	5-12-94	1030	H2O	4	
16A	5-12-94	1830	H20	4	

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relindujehed by:	5-13-94 Date:	15:00 Time:	Allhu Shelly Reserved by:	5-13 Date:	1500 Time:
Relinquished by:	Date:	Time;	Received by:	Date:	Time:

INCORPORATED

MAY 1 8 2007

LOS ANGELES DEPARTMENT OF WATER AND POWER HORSE CANYON MINE SEEP AND SPRING DATA MAY 1994

SEEP/SPRING	PH	CONDUCTIVITY	FLOW RATE	TEMPERATURE
Number	(units)	(umhos/cm @ 25 deg C)	(gpm)	(deg C)
110 -				
HC-2	7.93	1200	9	8.5
HC-9	7.73	1700	3	9.0
HC-11	7.77	992	2	8.5
HC-13	7.86	1690	0.25	11.0
HC-18	8.14	1050	5	8.0
CUDEAGEWATE				
SURFACE WATER	1			
Number				
LICOM 4	T = == T			
HCSW-1	7.83	1700	6	13
HCSW-2			DRY	
HCSW-3			DRY	

INCORPORATED

MAY 1 8 2007

WATER SAMPLE ANALYSIS REQUEST FORM

Sampling Company: EarthFax Engineering, Inc.	Sampling Personnel: JRP, CDH, RBG
Project Name: IPA Seep & Spring Survey	Project Number: UC-284-07
Field Sample Number:	Laboratory Sample Number:
Date Sampled: 5-12-94	Time Sampled: 0800
Analytical Laboratory: Chemtech	Date of Shipment/Delivery: 5-13-94

Container Type	Number of Bottles	Preservative(s)	Analyses Requested
PLASTIC QUART	2		SEE ATTACHED SHEET
PLASTIC PINT	2		

Special Requirements:	

MAY 1 8 2007

WATER SAMPLE ANALYSIS REQUEST FORM

Project Name: IPA Seep & Spring Survey Project Number: UC-284-07 Field Sample Number: Laboratory Sample Number:	Sampling Company: E	EarthFax Engineering, Inc.	Sampling Personnel: JRP, CDH, RBG
Field Sample Number: Caboratory Sample Number:	Project Name: IPA Se	ep & Spring Survey	Project Number: UC-284-07
	Field Sample Number:	9	Laboratory Sample Number:
Date Sampled: 5-12-94 Time Sampled: /000	Date Sampled: 5-12-9	14	Time Sampled: /DOD
Analytical Laboratory: Chemtech Date of Shipment/Delivery: 5-13-94	Analytical Laboratory:	Chemtech	Date of Shipment/Delivery: 5-13-94
	Container Type	Number of Bottles Preservati	ive(s) Applyage Paguages J

Container Type	Number of Bottles	Preservative(s)	Analyses Requested
PLASTIC QUART	2		SEE ATTACHED SHEET
PLASTIC PINT	2		

Special Requirements:	

MAY 1 8 2007

WATER SAMPLE ANALYSIS REQUEST FORM

Sampling Company: EarthFax Engineering, Inc. Project Name: IPA Seep & Spring Survey Field Sample Number: OSLB Date Sampled: 5-12-94 Analytical Laboratory: Chemtech		ing, Inc.	Sampling Personnel: JRP, CDH, RBG Project Number: UC-284-07 Laboratory Sample Number: Time Sampled: 0730 Date of Shipment/Delivery: 5-13-94		
		өу			
Container Type	Number of Bottles	Preservative(s)			
PLASTIC QUART	2	1 (doe) Valiva(s)	Analyses Requested		
PLASTIC PINT	2		SEE ATTACHED SHEET		
			<u>I</u>		
Special Requirements:					

MAY 1 8 2007

WATER SAMPLE ANALYSIS REQUEST FORM

Sampling Company: EarthFax Engineering, Inc.	Sampling Personnel: JRP, CDH, RBG Project Number: UC-284-07 Laboratory Sample Number:		
Project Name: IPA Seep & Spring Survey			
Field Sample Number: 14			
Date Sampled: 5-12-94	Time Sampled: /030		
Analytical Laboratory: Chemtech	Date of Shipment/Delivery: 5-13-94		

Container Type	Number of Bottles	Preservative(s)	Analyses Requested
PLASTIC QUART	2		SEE ATTACHED SHEET
PLASTIC PINT	2		

Special Requirements:		
	Special Requirements:	

MAY 1 8 2007

WATER SAMPLE ANALYSIS REQUEST FORM

Sampling Company: EarthFax Engineering, Inc.	Sampling Personnel: JRP, CDH, RBG			
Project Name: IPA Seep & Spring Survey	Project Number: UC-284-07			
Field Sample Number: 16 A	Laboratory Sample Number:			
Date Sampled: 5-12-94	Time Sampled: 1830			
Analytical Laboratory: Chemtech	Date of Shipment/Delivery: 5-13-94			

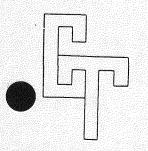
Container Type	Number of Bottles	Preservative(s)	Analyses Requested
PLASTIC QUART 2			SEE ATTACHED SHEET
PLASTIC PINT	2		

Special Requirements:			

INCORPORATED

MAY 1 8 2007

DIV. of Oil, Gas & Mining



ANALYTICAL LABORATORY

6100 S. STRATLER MURRAY, UTAH 84107 PHONE: (801) 262-7299 FAX: (801) 262-7378

DATE: 6-02-94

T0:

Earthfax Engineering 7324 S. 1300 E. STE 100 Midvale, Utah 84047

PROJECT: IPA Seep & Spring Survey

DATE SAMPLED: 5-12-94
DATE SUBMITTED: 5-13-94

INCORPORATED

MAY 1 8 2007

Div. of Oil, Gas & Mining

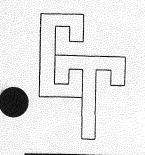
CERTIFICATE OF ANALYSIS

SAMPLE ID: LAB #:	1 <u>U007206</u>	9 <u>U007207</u>	10 SLB <u>U007208</u>	<u>DATE</u> <u>ANALYZED/METHOD</u>
<u>PARAMETER</u>				- THE STATE OF THE
Carbonate as CO ₃ , mg/l	17	20	12	5-20-94 SM17 2320B
Bicarbonate as HCO ₃ , mg/l	307	394	333	5-20-94 SM17 2320B
Chloride as Cl, mg/l	11	11	13	5-19-94 EPA 325.3
Fluoride as F, mg/l	<.5	0.16	0.15	5-20-94 EPA 340.2
Ammonia as NH ₃ -N, mg/l	<.2	<.2	<.2	6-01-94 SM17 4500
Nitrate as NO ₃ -N, mg/l	0.044	0.023	0.038	5-17-94 EPA 353.1
Nitrite as NO ₂ -N, mg/1	0.0107	0.0077	0.0066	5-13-94 EPA 354.1
Phosphorus as P, mg/1	0.166	<.02	0.054	5-31-94 SM17 4500P
Sulfate as SO ₄ , mg/1	67	98	209	5-18-94 SM17 4500
Sulfide as S, mg/1	<.1	0.21	<.1	5-18-94 EPA 376.1
Aluminum as Al, mg/l	1.11	0.026	1.67	5-19-94 EPA 200.7
Arsenic as As, mg/l	<.04	<.04	<.04	5-19-94 EPA 200.7
Barium as Ba, mg/1	0.110	0.117	0.069	5-19-94 EPA 200.7
Boron as B, mg/l	0.082	0.053	0.062	5-19-94 EPA 200.7
Cadmium as Cd, mg/1	<.01	<.01	<.01	5-19-94 EPA 200.7
Calcium as Ca, mg/l	48.1	58.5	77.1	5-16-94 EPA 200.7
Chromium as Cr, mg/1	<.01	<.01	<.01	5-19-94 EPA 200.7
NOTE C 3 .				

NOTE: Sample temp. when submitted was 6.7°C on ice.

Approved By:

Harry At



ANALYTICAL LABORATORY

6100 S. STRATLER MURRAY, UTAH 84107 PHONE: (801) 262-7299 FAX: (801) 262-7378

DATE: 6-02-94

T0: Earthfax Engineering 7324 S. 1300 E. STE 100 Midvale, Utah 84047

PROJECT: IPA Seep & Spring Survey

DATE SAMPLED: 5-12-94 DATE SUBMITTED: 5-13-94 INCORPORATED

MAY 1 8 2007

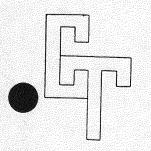
Div. of Oil, Gas & Mining

CERTIFICATE OF ANALYSIS

SAMPLE ID: LAB #:	1 <u>U007206</u>	9 <u>U007207</u>	10 SLB U007208	<u>DATE</u> <u>ANALYZED/M</u> ETHOD
<u>PARAMETER</u>				
Copper as Cu, mg/l	<.01	<.01	<.01	5-19-94 EPA 200.7
Iron as Fe, mg/l	1.15	0.248	2.30	5-19-94 EPA 200.7
Lead as Pb, mg/1	0.046	0.043	0.046	5-19-94 EPA 200.7
Magnesium as Mg, mg/1	42.0	52.2	68.8	5-16-94 EPA 200.7
Manganese as Mn, mg/1	0.021	0.011	0.067	5-19-94 EPA 200.7
Mercury as Hg, mg/l	<.0002	<.0002	<.0002	5-17-94 EPA 245.1
Molybdenum as Mo, mg/l	<.04	<.04	<.04	5-19-94 EPA 200.7
Nickel as Ni, mg/l	<.01	<.01	<.01	5-19-94 EPA 200.7
Potassium as K, mg/l	0.79	0.85	1.2	5-16-94 EPA 200.7
Selenium as Se, mg/l	<.04	<.04	<.04	5-19-94 EPA 200.7
Sodium as Na, mg/l	47.7	70.8	70.4	5-16-94 EPA 200.7
Zinc as Zn, mg/l	0.036	<.01	0.028	5-19-94 EPA 200.7
TDS, mg/1	418	542	671	5-16-94 EPA 160.1
Hardness as CaCO ₃ , mg/1	351	354	480	5-16-94 EPA 130.2

NOTE: Sample temp. when submitted was 6.7°C on ice.

Approved By:



ANALYTICAL LABORATORY

6100 S. STRATLER MURRAY, UTAH 84107 PHONE: (801) 262-7299 FAX: (801) 262-7378

DATE: 6-02-94

T0:

Earthfax Engineering 7324 S. 1300 E. STE 100 Midvale, Utah 84047

PROJECT: IPA Seep & Spring Survey

DATE SAMPLED: 5-12-94
DATE SUBMITTED: 5-13-94

INCORPORATED
MAY 1 8 2007

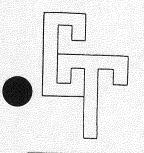
Div. of Oil, Gas & MIRITA

CERTIFICATE OF ANALYSIS

SAMPLE ID: LAB #:	14 <u>U007209</u>	16A U007210	<u>DATE</u> <u>ANALYZED/METHOD</u>
<u>PARAMETER</u>			
Carbonate as CO ₃ , mg/1	41	24	5-20-94 SM17 2320B
Bicarbonate as HCO3, mg/l	477	372	5-20-94 SM17 2320B
Chloride as Cl, mg/l	42	17	5-19-94 EPA 325.3
Fluoride as F, mg/l	0.21	<.3	5-20-94 EPA 340.2
Ammonia as NH₃-N, mg/l	<.2	<.2	6-01-94 SM17 4500
Nitrate as NO₃-N, mg/l	<.02	0.037	5-17-94 EPA 353.1
Nitrite as NO₂-N, mg/l	0.0050	0.0088	5-13-94 EPA 354.1
Phosphorus as P, mg/l	<.02	0.277	5-31-94 SM17 4500P
Sulfate as SO ₄ , mg/l	688	133	5-18-94 SM17 4500
Sulfide as S, mg/l	<.1	<.1	5-18-94 EPA 376.1
Aluminum as Al, mg/l	<.01	3.16	5-19-94 EPA 200.7
Arsenic as As, mg/l	<.04	<.04	5-19-94 EPA 200.7
Barium as Ba, mg/1	0.012	0.103	5-19-94 EPA 200.7
Boron as B, mg/l	0.226	0.073	5-19-94 EPA 200.7
Cadmium as Cd, mg/l	<.01	<.01	5-19-94 EPA 200.7
Calcium as Ca, mg/1	60.3	56.3	5-16-94 EPA 200.7
Chromium as Cr, mg/l	<.01	<.01	5-19-94 EPA 200.7
선물 교통물 얼굴 얼굴이 전혀 먹었습니다. 아버지가 중요하다 한 한 번 생생님이 하는 사람들이 되는 것 같아 그리는 것이 되었다. 그렇게 하는 것은 사람들이 살아 있다.			

NOTE: Sample temp. when submitted was 6.7°C on ice.

Approved By:



ANALYTICAL LABORATORY

6100 S. STRATLER MURRAY, UTAH 84107 PHONE: (801) 262-7299 FAX: (801) 262-7378

DATE: 6-02-94

TO:

Earthfax Engineering 7324 S. 1300 E. STE 100 Midvale, Utah 84047

PROJECT: IPA Seep & Spring Survey

DATE SAMPLED: 5-12-94

DATE SUBMITTED: 5-13-94

MODEPORATED

MAY 1 8 2007

Div. of Oil, Gab & Mining

CERTIFICATE OF ANALYSIS

SAMPLE ID: LAB #:	14 <u>U007</u> 209	16A U007210	<u>DATE</u> <u>ANALYZED/ME</u> THOD
<u>PARAMETER</u>			PHYSE TEED/ HE MOD
Copper as Cu, mg/1	<.01	<.01	5-19-94 EPA 200.7
Iron as Fe, mg/1	0.174	3.81	5-19-94 EPA 200.7
Lead as Pb, mg/1	0.040	0.037	5-19-94 EPA 200.7
Magnesium as Mg, mg/l	105	53.6	5-16-94 EPA 200.7
Manganese as Mn, mg/l	<.01	0.101	5-19-94 EPA 200.7
Mercury as Hg, mg/l	<.0002	<.0002	5-17-94 EPA 245.1
Molybdenum as Mo, mg/l	<.04	<.04	5-19-94 EPA 200.7
Nickel as Ni, mg/l	<.01	<.01	5-19-94 EPA 200.7
Potassium as K, mg/l	1.6	0.67	5-16-94 EPA 200.7
Selenium as Se, mg/l	<.04	<.04	5-19-94 EPA 200.7
Sodium as Na, mg/7	302	106	5-16-94 EPA 200.7
Zinc as Zn, mg/1	0.031	0.023	5-19-94 EPA 200.7
TDS, mg/1	1,483	586	5-16-94 EPA 160.1
Hardness as CaCO₃, mg/l	576	351	5-16-94 EPA 130.2
NOTE: Comple to 1			

NOTE: Sample temp. when submitted was 6.7°C on ice.

Approved By: $\frac{1}{2}$

WATER SAMPLE ANALYSIS REQUEST FORM

Sampling Company: EarthFax Engineering, Inc.	Sampling Personnel: JRP, CDH, RBG		
Project Name: IPA Seep & Spring Survey	Project Number: UC-284-07 Laboratory Sample Number:		
Field Sample Number: HC-2			
Date Sampled: 5-12-94	Time Sampled: 1240		
Analytical Laboratory: Chemtech	Date of Shipment/Delivery: 5-13-94		

Container Type	Number of Bottles	Preservatíve(s)	Analyses Requested
PLASTIC QUART	2		SEE ATTACHED SHEET
PLASTIC PINT	2		

Special Requirements:	

INCORPORATED
NAY 1 8 2007

WATER SAMPLE ANALYSIS REQUEST FORM

Sampling Company: EarthFax Engineering, Inc.	Sampling Personnel: JRP, CDH, RBG		
Project Name: IPA Seep & Spring Survey	Project Number: UC-284-07 Laboratory Sample Number: Time Sampled: /000		
Field Sample Number: HC-9			
Date Sampled: 5-12-94			
Analytical Laboratory: Chemtech	Date of Shipment/Delivery: 5-13-94		

Container Type	Number of Bottles	Preservative(s)	Analyses Requested
PLASTIC QUART	2		SEE ATTACHED SHEET
PLASTIC PINT	2		

Special Requirements:	

INCORPORATED
MAY 1 8 2007

WATER SAMPLE ANALYSIS REQUEST FORM

Sampling Company: EarthFax Engineering, Inc.	Sampling Personnel: JRP, CDH, RBG		
Project Name: IPA Seep & Spring Survey	Project Number: UC-284-07		
Field Sample Number: HC-11	Laboratory Sample Number:		
Date Sampled: 5-12-94	Time Sampled: /355		
Analytical Laboratory: Chemtech	Date of Shipment/Delivery: 5-13-94		

Container Type	Number of Bottles	Preservative(s)	Analyses Requested
PLASTIC QUART	2		SEE ATTACHED SHEET
PLASTIC PINT	2		

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Special Requirements:							

MAY 1 8 2007

WATER SAMPLE ANALYSIS REQUEST FORM

Sampling Company: EarthFax Engineering, Inc.	Sampling Personnel: JRP, CDH, RBG		
Project Name: IPA Seep & Spring Survey	Project Number: UC-284-07		
Field Sample Number: $HC-13$	Laboratory Sample Number: Time Sampled: 1440		
Date Sampled: 5-12-94			
Analytical Laboratory: Chemtech	Date of Shipment/Delivery: 5-13-94		

Container Type	Number of Bottles	Preservative(s)	Analyses Requested
PLASTIC QUART	2		SEE ATTACHED SHEET
PLASTIC PINT	2		

Special Requirements:		

INCORPORATED
MAY 1 8 2007

WATER SAMPLE ANALYSIS REQUEST FORM

Sampling Company: EarthFax Engineering, Inc.	Sampling Personnel: JRP, CDH, RBG
Project Name: IPA Seep & Spring Survey	Project Number: UC-284-07
Field Sample Number: $HC-18$	Laboratory Sample Number:
Date Sampled: 5-12-94	Time Sampled: 1// 6
Analytical Laboratory: Chemtech	Date of Shipment/Delivery: 5-13-94

Container Type	Number of Bottles	Preservative(s)	Analyses Requested
PLASTIC QUART	2		SEE ATTACHED SHEET
PLASTIC PINT	2		

Special Requirements:		
	Special Requirements	

MAY 1 8 2007

WATER SAMPLE ANALYSIS REQUEST FORM

Sampling Company: EarthFax Engineering, Inc.	Sampling Personnel: JRP, CDH, RBG
Project Name: IPA Seep & Spring Survey	Project Number: UC-284-07
Field Sample Number: HCSW-丿	Laboratory Sample Number:
Date Sampled: 5-12-94	Time Sampled: 1300
Analytical Laboratory: Chemtech	Date of Shipment/Delivery: 5-13-94

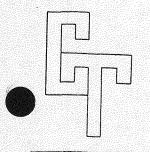
Container Type	Number of Bottles	Preservative(s)	Analyses Requested
PLASTIC QUART	2		SEE ATTACHED SHEET
PLASTIC PINT	2		
	9 (10)		

Special Requirements:	
	in the state of the

INCORPORATED

MAY 1 8 2007

Div. of Oil, Gas & Mining



ANALYTICAL LABORATORY

6100 S. STRATLER MURRAY, UTAH 84107 PHONE: (801) 262-7299 FAX: (801) 262-7378

DATE: 6-02-94

TO:

Earthfax Engineering 7324 S. 1300 E. STE 100 Midvale, Utah 84047

PROJECT: IPA Seep & Spring Survey

DATE SAMPLED: 5-12-94
DATE SUBMITTED: 5-13-94

INCORPORATED

MAY 1 8 2007

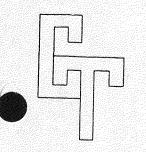
Div. of Oil, Gas & Mining

CERTIFICATE OF ANALYSIS

SAMPLE ID: LAB #:	HC-2 <u>U007200</u>	HC-9 U007201	HC-11 U007202	<u>DATE</u> ANALYZED/METHOD
<u>PARAMETER</u>				
Carbonate as CO ₃ , mg/l	42	18	25	5-20-94 SM17 2320B
Bicarbonate as HCO ₃ , mg/1	450	496	407	5-20-94 SM17 2320B
Chloride as Cl, mg/l	17	24	12	5-19-94 EPA 325.3
Fluoride as F, mg/l	0.18	<.2	<.2	5-20-94 EPA 340.2
Ammonia as NH ₃ -N, mg/l	<.2	<.2	<.2	6-01-94 SM17 4500
Nitrate as NO ₃ -N, mg/1	0.319	0.159	0.043	5-17-94 EPA 353.1
Nitrite as NO ₂ -N, mg/l	0.0050	0.0058	0.0086	5-13-94 EPA 354.1
Phosphorus as P, mg/1	<.02	0.029	0.083	5-31-94 SM17 4500P
Sulfate as SO4, mg/l	247	651	209	5-18-94 SM17 4500
Sulfide as S, mg/l	<.1	<.1	0.14	5-18-94 EPA 376.1
Aluminum as Al, mg/l	<.01	4.49	0.207	5-19-94 EPA 200.7
Arsenic as As, mg/l	<.04	<.04	<.04	5-19-94 EPA 200.7
Barium as Ba, mg/1	0.022	0.083	0.069	5-19-94 EPA 200.7
Boron as B, mg/1	0.147	0.180	0.099	5-19-94 EPA 200.7
Cadmium as Cd, mg/l	<.01	<.01	<.01	5-19-94 EPA 200.7
Calcium as Ca, mg/l	47.6	96.7	61.1	5-16-94 EPA 200.7
Chromium as Cr, mg/1	<.01	<.01	<.01	5-19-94 EPA 200.7

NOTE: Sample temp. when submitted was 6.7°C on ice.

Approved By:



ANALYTICAL LABORATORY

6100 S. STRATLER MURRAY, UTAH 84107 PHONE: (801) 262-7299 FAX: (801) 262-7378

DATE: 6-02-94

TO: Earthfax Engineering 7324 S. 1300 E. STE 100

Midvale, Utah 84047

PROJECT: IPA Seep & Spring Survey

DATE SAMPLED: 5-12-94
DATE SUBMITTED: 5-13-94

INCORPORATED

MAY 1 8 2007

Div. of Oil, Gas & Mining

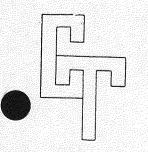
CERTIFICATE OF ANALYSIS

SAMPLE ID: LAB #:	HC-2 <u>U007200</u>	HC-9 <u>U007201</u>	HC-11 U007202	DATE ANALYZED/METHOD
<u>PARAMETER</u>				
Copper as Cu, mg/1	<.01	<.01	<.01	5-19-94 EPA 200.7
Iron as Fe, mg/1	0.189	5.61	0.345	5-19-94 EPA 200.7
Lead as Pb, mg/1	0.059	0.058	0.058	5-19-94 EPA 200.7
Magnesium as Mg, mg/l	68.2	139	71.2	5-16-94 EPA 200.7
Manganese as Mn, mg/l	<.01	0.204	<.01	5-19-94 EPA 200.7
Mercury as Hg, mg/7	<.0002	<.0002	<.0002	5-17-94 EPA 245.1
Molybdenum as Mo, mg/l	<.04	<.04	<.04	5-19-94 EPA 200.7
Nickel as Ni, mg/l	<.01	<.01	<.01	5-19-94 EPA 200.7
Potassium as K, mg/l	1.4	3.4	2.2	5-16-94 EPA 200.7
Selenium as Se, mg/l	<.04	<.04	<.04	5-19-94 EPA 200.7
Sodium as Na, mg/l	164	216	94.6	5-16-94 EPA 200.7
Zinc as Zn, mg/l	0.015	0.023	0.013	5-19-94 EPA 200.7
TDS, mg/1	838	1,395	740	5-16-94 EPA 160.1
Hardness as CaCO ₃ , mg/l	404	828	460	5-16-94 EPA 130.2

NOTE: Sample temp. when submitted was 6.7°C on ice.

Approved By:

Jij ni Alex



ANALYTICAL LABORATORY

6100 S. STRATLER MURRAY, UTAH 84107 PHONE: (801) 262-7299 FAX: (801) 262-7378

DATE: 6-02-94

T0:

Earthfax Engineering 7324 S. 1300 E. STE 100 Midvale, Utah 84047

PROJECT: IPA Seep & Spring Survey

DATE SAMPLED: 5-12-94
DATE SUBMITTED: 5-13-94

INCORPORATED

MAY 1 8 2007

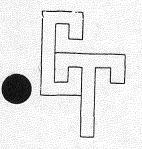
Div. of Oil, Gas & Mining

CERTIFICATE OF ANALYSIS

SAMPLE ID: LAB #:	HC-13 <u>U007203</u>	HC-18 U007204	HCSW-1 <u>U007205</u>	<u>DATE</u> ANALYZED/METHOD
<u>PARAMETER</u>				
Carbonate as CO ₃ , mg/l	39	37	38	5-20-94 SM17 2320B
Bicarbonate as HCO ₃ , mg/l	436	426	408	5-20-94 SM17 2320B
Chloride as Cl, mg/l	24	22	24	5-19-94 EPA 325.3
Fluoride as F, mg/l	0.19	0.24	0.25	5-20-94 EPA 340.2
Ammonia as NH ₃ -N, mg/1	<.2	<.2	<.2	6-01-94 SM17 4500
Nitrate as NO ₃ -N, mg/l	0.134	0.042	0.072	5-17-94 EPA 353.1
Nitrite as NO ₂ -N, mg/l	0.0083	0.0058	0.0077	5-13-94 EPA 354.1
Phosphorus as P, mg/1	0.044	<.02	<.02	5-31-94 SM17 4500P
Sulfate as SO ₄ , mg/1	691	229	288	5-18-94 SM17 4500
Sulfide as S, mg/l	<.1	<.1	<.1	5-18-94 EPA 376.1
Aluminum as Al, mg/l	0.428	0.194	0.260	5-19-94 EPA 200.7
Arsenic as As, mg/1	<.04	<.04	<.04	5-19-94 EPA 200.7
Barium as Ba, mg/1	0.047	0.064	0.043	5-19-94 EPA 200.7
Boron as B, mg/1	0.193	0.235	0.186	5-19-94 EPA 200.7
Cadmium as Cd, mg/1	<.01	<.01	<.01	5-19-94 EPA 200.7
Calcium as Ca, mg/l	74.1	45.8	48.4	5-16-94 EPA 200.7
Chromium as Cr, mg/l	<.01	<.01	<.01	5-19-94 EPA 200.7
MOTE A				

NOTE: Sample temp. when submitted was 6.7°C on ice.

Approved By: _



ANALYTICAL LABORATORY

6100 S. STRATLER MURRAY, UTAH 84107 PHONE: (801) 262-7299 FAX: (801) 262-7378

DATE: 6-02-94

T0:

Earthfax Engineering 7324 S. 1300 E. STE 100 Midvale, Utah 84047

PROJECT: IPA Seep & Spring Survey

DATE SAMPLED: 5-12-94
DATE SUBMITTED: 5-13-94

INCORPORATED

MAY 1 8 2007

Div. of Oil, Gas & Mining

CERTIFICATE OF ANALYSIS

SAMPLE ID: LAB #:	HC-13 <u>U007203</u>	HC-18 <u>U007204</u>	HCSW-1 <u>U007205</u>	<u>DATE</u> <u>ANALYZED/METHOD</u>
<u>PARAMETER</u>				
Copper as Cu, mg/l	<.01	<.01	<.01	5-19-94 EPA 200.7
Iron as Fe, mg/1	0.737	0.728	0.422	5-19-94 EPA 200.7
Lead as Pb, mg/1	0.073	0.034	0.048	5-19-94 EPA 200.7
Magnesium as Mg, mg/7	120	54.5	61.6	5-16-94 EPA 200.7
Manganese as Mn, mg/l	0.015	0.017	0.016	5-19-94 EPA 200.7
Mercury as Hg, mg/1	<.0002	<.0002	<.0002	5-17-94 EPA 245.1
Molybdenum as Mo, mg/l	<.04	<.04	<.04	5-19-94 EPA 200.7
Nickel as Ni, mg/l	<.01	<.01	<.01	5-19-94 EPA 200.7
Potassium as K, mg/1	4.3	2.4	3.9	5-16-94 EPA 200.7
Selenium as Se, mg/l	<.04	<.04	<.04	5-19-94 EPA 200.7
Sodium as Na, mg/1	225	162	167	5-16-94 EPA 200.7
Zinc as Zn, mg/l	0.012	0.011	<.01	5-19-94 EPA 200.7
TDS, mg/1	1,435	777	880	5-16-94 EPA 160.1
Hardness as CaCO ₃ , mg/1	705	356	394	5-16-94 EPA 130.2

NOTE: Sample temp. when submitted was 6.7°C on ice.

Approved By:

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LOS ANGELES DEPARTMENT OF WATER AND POWER SOUTH LEASE PROPERTY SEEP AND SPRING DATA AUGUST 1994

SEEP/ SPRING	PH	COND. (umhos/cm)	FLOW RATE	TEMP	
Number	∐ (units)	@ 25 deg Ć	(gpm)	deg C)	COMMENTS
1	7.77	780	<0.5	16	
1A			SEEP	10	
1B			DRY	1	
2 3			DRY		
			DRY		
ЗА			DRY		
3 B			DRY		
3C			DRY		
4			DRY		
5			DRY		
5			SEEP		
7			SEEP		
3	7.74	915	<u> </u>	18	
BA			DRY	 '' 	
3 B			DRY		
9	8.15	925	<0.5	18	INCORPORATED
9R			DRY		<u> INCUREURATES</u>
10	7.76	849	1	12	MAY 1 8 2007
11			WET		PIA: 1 0 Looi
12A	7.88	3130	SEEP	15	Div. of Oil. Gas & Mining
12B	7.64	1300	< 0.12	9	LIV OF OIL GOOD OF THE TOTAL
12C			WET		
12D			DRY		
12E			SEEP	10	
13			MOIST		
13A			DRY		
13B			MOIST		
3Z			MOIST		
4	8.28	2020	<0.5	23	
4A 5			DRY		
5 5A			DRY		
5B			MOIST		
50			DRY		
6A			DRY		
6B			DRY		
6C			DRY		
6Z	707		DRY		
7	7.97	1000	<0.5	18	
7A			DAMP		
7A 7B			DRY		
8			DRY		
9A			WET		
9B			DRY		
9C			DRY		
0			DRY		
0 2			SEEP		
bea .			MOIST		

MAY 1 8 2007

EARTHFAX ENGINEERING INC. 7324 SOUTH 1300 EAST Midvale, Utah 84047

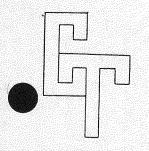
Div. of Oil, Gas & Mining

CHAIN-OF-CUSTODY FORM

Sampling Company: EarthFax Engineering Inc.	Sampling Personnel: JRP, JDG, CDH
Project Name: IPA Seep & Spring	Project Number: UC-391-02
Analytical Laboratory: Chemtech	Date of Shipment/Delivery: 8-05-94
Method of Shipment/Delivery: In person	Airbill Number: NA

Field Sample No.	Date Sampled	Time Sampled	Sample Type	No. of Containers	Remarks
HC-11	8-4-94	1200	WATER	4	
SPRING-9	8-3-94	1600	WATER	4	•
SPRING-13	8-3-94	1700	WATER	4	
SPRING-1	8-3-94	1800	WATER	4	
SPRING-14	8-3-94	1730	WATER	4	
H-4	8-4-94	900	WATER	4	
HSW-1	8-4-94	1000	WATER	4	
H-2	8-4-94	1100	WATER	4	
SPRING-10	8-3-94	1630	WATER	4	

Date:			Date:	Time:
Date: /	Time:	Received by:	Date:	Time:
Date:	Time:	Received by:	Date:	Time;
	Aug. 5/44 Date: /	hy 5/44 3:00 pm Date: / Time:	Aug 5/44 3:00 pm Military Date: / Time: Received by:	Date: Time: Received by: Date:



ANALYTICAL LABORATORY

6100 S. STRATLER MURRAY, UTAH 84107 PHONE: (801) 262-7299 FAX: (801) 262-7378

DATE: 8-26-94

TO: EarthFax Engineering 7324 So. 1300 E. STE 100 Midvale, Utah 84047

INCORPORATED

MAY 1 8 2007

Div. of Oil, Gas & Mining

SAMPLE ID: Lab #U012591

PROJECT: IPA Seep & Spring: Spring 1

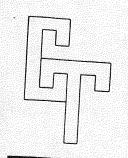
DATE SAMPLED: 8-03-94
DATE SUBMITTED: 8-05-94

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	DATE ANALYZED/METHOD
TDS, mg/l	505	8-08-94 EPA 160.1
Hardness as CaCO ₃ , mg/l	453	8-12-94 EPA 130.2
Carbonate as CO ₃ , mg/l	<1	8-09-94 SM 2320B
Bicarbonate as HCO ₃ , mg/l	466	8-09-94 SM 2320B
Chloride as Cl, mg/l	12	8-08-94 EPA 325.3
Fluoride as F, mg/1	<.2	8-09-94 EPA 340.2
Ammonia as NH ₃ -N, mg/l	<.4	8-19-94 SM4500
Nitrate as NO ₃ -N, mg/l	0.053	8-08-94 EPA 353.1
Nitrite as NO ₂ -N, mg/l	*0.0090	8-06-94 EPA 354.1
Phosphorus as P (T), mg/l	0.368	8-10-94 SM4500
Sulfate as SO ₄ , mg/l	112	8-15-94 SM4500
Sulfide as S, mg/1	<.1	8-08-94 EPA 376.1
Aluminum as Al (T), mg/l	2.14	8-09-94 EPA 200.7
Arsenic as As (T), mg/l	<.04	8-09-94 EPA 200.7
Barium as Ba (T), mg/l	0.210	8-09-94 EPA 200.7
Boron as B (T), mg/1	0.084	8-09-94 EPA 200.7
Cadmium as Cd (T), mg/l	<.01	8-09-94 EPA 200.7
Calcium as Ca (T), mg/l	92.8	8-10-94 EPA 200.7
Chromium as Cr (T), mg/l	<.01	8-09-94 EPA 200.7
Copper as Cu (T), mg/1	<.01	8-09-94 EPA 200.7
*Run past holding time.		21 L

Approved By:

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ANALYTICAL LABORATORY

6100 S. STRATLER MURRAY, UTAH 84107 PHONE: (801) 262-7299 FAX: (801) 262-7378

DATE: 8-26-94

T0:

EarthFax Engineering 7324 So. 1300 E. STÉ 100 Midvale, Utah 84047

SAMPLE ID: Lab #U012591

PROJECT: IPA Seep & Spring: Spring 1

DATE SAMPLED: 8-03-94 DATE SUBMITTED: 8-05-94 MCCHPORATED

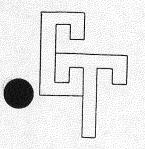
MAY 1 8 2007

Div. of Oil, Gas & Mining

CERTIFICATE OF ANALYSIS

DADAMETER		
<u>PARAMETER</u>	<u>DETECTED</u>	DATE ANALYZED/METHOD
Iron as Fe (T), mg/1	4.89	
Lead as Pb (T), mg/1	<.02	
	사람 항상을 다 나는 하는 맛을 하고 있다.	8-09-94 EPA 200.7
Magnesium as Mg (T), mg/l	56.6	8-10-94 EPA 200.7
Manganese as Mn (T), mg/1	1.29	8-09-94 EPA 200.7
Mercury as Hg (T), mg/l	<.0002	8-09-94 EPA 245.1
Molybdenum as Mo (T), mg/l	<.04	8-09-94 EPA 200.7
Nickel as Ni (T), mg/l	<.01	
Potassium as K (T), mg/l	2.36	2,71 200.7
		8-10-94 EPA 200.7
Selenium as Se (T), mg/l	<.04	8-09-94 EPA 200.7
Sodium as Na (T), mg/7	53.5	8-10-94 EPA 200.7
Zinc as Zn (T), mg/l	0.028	8-09-94 EPA 200.7

NOTE: Sample temp. when submitted was 15.2°C on ice.



ANALYTICAL LABORATORY

6100 S. STRATLER MURRAY, UTAH 84107 PHONE: (801) 262-7299 FAX: (801) 262-7378

DATE: 8-26-94

T0:

EarthFax Engineering 7324 So. 1300 E. STE 100 Midvale, Utah 84047

SAMPLE ID: Lab #U012589

PROJECT: IPA Seep & Spring: Spring 9

DATE SAMPLED: 8-03-94

DATE SUBMITTED: 8-05-94

INCORPORATED

MAY 1 8 2007

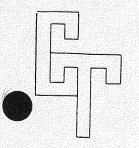
Div. of Oil, Gas & Mining

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	DATE ANALYZED/METHOD
TDS, mg/l	621	8-08-94 EPA 160.1
Hardness as CaCO₃, mg/l	405	8-12-94 EPA 130.2
Carbonate as CO ₃ , mg/1	<1	8-09-94 SM 2320B
Bicarbonate as HCO ₃ , mg/l	561	8-09-94 SM 2320B
Chloride as Cl, mg/l	12.5	8-08-94 EPA 325.3
Fluoride as F, mg/l	<2	8-09-94 EPA 340.2
Ammonia as NH ₃ -N, mg/l	<.4	8-19-94 SM4500
Nitrate as NO ₃ -N, mg/l	<.02	8-08-94 EPA 353.1
Nitrite as NO ₂ -N, mg/l	*0.0090	8-06-94 EPA 354.1
Phosphorus as P (T), mg/1	0.038	8-10-94 SM4500
Sulfate as SO ₄ , mg/l	101	8-15-94 SM4500
Sulfide as S, mg/l	0.38	8-08-94 EPA 376.1
Aluminum as Al (T), mg/l	0.058	8-09-94 EPA 200.7
Arsenic as As (T), mg/l	<.04	8-09-94 EPA 200.7
Barium as Ba (T), mg/l	0.124	8-09-94 EPA 200.7
Boron as B (T), mg/1	0.061	8-09-94 EPA 200.7
Cadmium as Cd (T), mg/l	<.01	8-09-94 EPA 200.7
Calcium as Ca (T), mg/l	69.8	8-10-94 EPA 200.7
Chromium as Cr (T), mg/l	<.01	8-09-94 EPA 200.7
Copper as Cu (T), mg/1	<.01	8-09-94 EPA 200.7
*Run past holding time.		. 1 /

Approved By:

Jack Workham



ANALYTICAL LABORATORY

6100 S. STRATLER MURRAY, UTAH 84107 PHONE: (801) 262-7299 FAX: (801) 262-7378

DATE: 8-26-94

T0:

EarthFax Engineering 7324 So. 1300 E. STE 100 Midvale, Utah 84047

SAMPLE ID: Lab #U012589

PROJECT: IPA Seep & Spring: Spring 9

DATE SAMPLED: 8-03-94
DATE SUBMITTED: 8-05-94

CERTIFICATE OF ANALYSIS

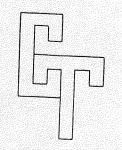
<u>PARAMETER</u>	<u>DETECTED</u>	DATE ANALYZED/METHOD
Iron as Fe (T), mg/1	0.056	8-09-94 EPA 200.7
Lead as Pb (T), mg/1	<.02	8-09-94 EPA 200.7
Magnesium as Mg (T), mg/l	61.1	8-10-94 EPA 200.7
Manganese as Mn (T), mg/l	0.153	8-09-94 EPA 200.7
Mercury as Hg (T), mg/1	<.0002	8-09-94 EPA 245.1
Molybdenum as Mo (T), mg/l	<.04	8-09-94 EPA 200.7
Nickel as Ni (T), mg/1	<.01	8-09-94 EPA 200.7
Potassium as K (T), mg/l	1.88	8-10-94 EPA 200.7
Selenium as Se (T), mg/l	<.04	8-09-94 EPA 200.7
Sodium as Na (T), mg/1	74.9	8-10-94 EPA 200.7
Zinc as Zn (T), mg/l	0.145	8-09-94 EPA 200.7

NOTE: Sample temp. when submitted was 15.2°C on ice.

Approved By:

Bel Worknown

INCORPORATED MAY 1 8 2007



ANALYTICAL LABORATORY

6100 S. STRATLER MURRAY, UTAH 84107 PHONE: (801) 262-7299 FAX: (801) 262-7378

DATE: 8-26-94

T0:

EarthFax Engineering 7324 So. 1300 E. STE 100 Midvale, Utah 84047

SAMPLE ID: Lab #U012596

PROJECT: IPA Seep & Spring: Spring 10

DATE SAMPLED: 8-04-94 DATE SUBMITTED: 8-05-94 INCORPORATED

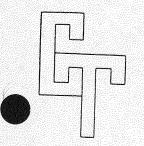
MAY 1 8 2007

Div. of Oil, Gas & Mining

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	DATE ANA	LYZED/METHOD
TDS, mg/1	637	8-08-94	EPA 160.1
Hardness as CaCO₃, mg/l	425	8-12-94	EPA 130.2
Carbonate as CO ₃ , mg/l	<1	8-09-94	SM 2320B
Bicarbonate as HCO ₃ , mg/l	466	8-09-94	SM 2320B
Chloride as Cl, mg/l	11	8-08-94	EPA 325.3
Fluoride as F, mg/l	<2	8-09-94	EPA 340.2
Ammonia as NH ₃ -N, mg/l	<.4	8-19-94	SM4500
Nitrate as NO ₃ -N, mg/l	0.030	8-08-94	EPA 353.1
Nitrite as NO₂-N, mg/l	<.005	8-06-94	EPA 354.1
Phosphorus as P (T), mg/l	0.041	8-10-94	SM4500
Sulfate as SO ₄ , mg/l	194	8-15-94	SM4500
Sulfide as S, mg/l	<.1	8-08-94	EPA 376.1
Aluminum as Al (T), mg/l	0.496	8-09-94	EPA 200.7
Arsenic as As (T), mg/l	<.04	8-09-94	EPA 200.7
Barium as Ba (T), mg/1	0.037	8-09-94	EPA 200.7
Boron as B (T), mg/1	0.038	8-09-94	EPA 200.7
Cadmium as Cd (T), mg/1	<.01	8-09-94	EPA 200.7
Calcium as Ca (T), mg/l	78.9	8-10-94	EPA 200.7
Chromium as Cr (T), mg/l	<.01	8-09-94	EPA 200.7
Copper as Cu (T), mg/1	<.01	8-09-94	EPA 200.7

Approved By:



ANALYTICAL LABORATORY

6100 S. STRATLER MURRAY, UTAH 84107 PHONE: (801) 262-7299 FAX: (801) 262-7378

DATE: 8-26-94

T0:

EarthFax Engineering

7324 So. 1300 E. STE 100

Midvale, Utah 84047

SAMPLE ID: Lab #U012596

PROJECT: IPA Seep & Spring: Spring 10

DATE SAMPLED: 8-04-94

DATE SUBMITTED: 8-05-94

INCORPORATED

MAY 1 8 2007

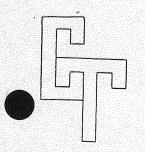
Div. of Oil, Gas & Mining

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	DETECTED	DATE ANALYZED/METHOD
Iron as Fe (T), mg/7	0.561	8-09-94 EPA 200.7
Lead as Pb (T), mg/1	<.02	8-09-94 EPA 200.7
Magnesium as Mg (T), mg/l	65.4	8-10-94 EPA 200.7
Manganese as Mn (T), mg/1	0.073	8-09-94 EPA 200.7
Mercury as Hg (T), mg/1	<.0002	8-09-94 EPA 245.1
Molybdenum as Mo (T), mg/l	<.04	8-09-94 EPA 200.7
Nickel as Ni (T), mg/l	<.01	8-09-94 EPA 200.7
Potassium as K (T), mg/1	1.13	8-10-94 EPA 200.7
Selenium as Se (T), mg/1	<.04	8-09-94 EPA 200.7
Sodium as Na (T), mg/l	63.5	8-10-94 EPA 200.7
Zinc as Zn (T), mg/1	<.01	8-09-94 EPA 200.7
		0 00 07 LTA 200.7

NOTE: Sample temp. when submitted was 15.2°C on ice.

Approved By:



ANALYTICAL LABORATORY

6100 S. STRATLER MURRAY, UTAH 84107 PHONE: (801) 262-7299 FAX: (801) 262-7378

DATE: 8-26-94

T0:

EarthFax Engineering 7324 So. 1300 E. STE 100 Midvale, Utah 84047

SAMPLE ID: Lab #U012592

PROJECT: IPA Seep & Spring: Spring 14

DATE SAMPLED: 8-03-94

DATE SUBMITTED: 8-05-94

INCORPORATED

MAY 1 8 2007

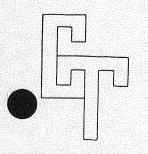
Div. of Oil, Gas & Mining

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	DATE ANA	LYZED/METHOD
TDS, mg/1	1,460	8-08-94	EPA 160.1
Hardness as CaCO₃, mg/1	553	8-12-94	EPA 130.2
Carbonate as CO ₃ , mg/l	5	8-09-94	SM 2320B
Bicarbonate as HCO ₃ , mg/1	552	8-09-94	SM 2320B
Chloride as Cl, mg/l	43	8-08-94	EPA 325.3
Fluoride as F, mg/l	0.26	8-09-94	EPA 340.2
Ammonia as NH ₃ -N, mg/1	<.4	8-19-94	SM4500
Nitrate as NO₃-N, mg/l	<.02	8-08-94	EPA 353.1
Nitrite as NO ₂ -N, mg/1	*0.0063	8-06-94	EPA 354.1
Phosphorus as P (T), mg/l	<.02	8-10-94	SM4500
Sulfate as SO ₄ , mg/l	681	8-15-94	SM4500
Sulfide as S, mg/l	<.1	8-08-94	EPA 376.1
Aluminum as Al (T), mg/l	0.086	8-09-94	EPA 200.7
Arsenic as As (T), mg/1	<.04	8-09-94	EPA 200.7
Barium as Ba (T), mg/l	0.017	8-09-94	EPA 200.7
Boron as B (T), mg/1	0.191	8-09-94	EPA 200.7
Cadmium as Cd (T), mg/l	<.01	8-09-94	EPA 200.7
Calcium as Ca (T), mg/l	60.3	8-10-94	EPA 200.7
Chromium as Cr (T), mg/1	<.01	8-09-94	EPA 200.7
Copper as Cu (T), mg/l	<.01	8-09-94	EPA 200.7
*Run past holding time.		/	l _

Approved By:

gue Wir Kum



ANALYTICAL LABORATORY

6100 S. STRATLER MURRAY, UTAH 84107 PHONE: (801) 262-7299 FAX: (801) 262-7378

DATE: 8-26-94

T0:

EarthFax Engineering 7324 So. 1300 E. STE 100 Midvale, Utah 84047

SAMPLE ID: Lab #U012592

PROJECT: IPA Seep & Spring: Spring 14

DATE SAMPLED: 8-03-94
DATE SUBMITTED: 8-05-94

CERTIFICATE OF ANALYSIS

PARAMETER	<u>DETECTED</u>	DATE ANA	LYZED/METHOD
Iron as Fe (T), mg/1	0.092	8-09-94	EPA 200.7
Lead as Pb (T), mg/1	<.02	8-09-94	EPA 200.7
Magnesium as Mg (T), mg/l	104	8-10-94	EPA 200.7
Manganese as Mn (T), mg/l	<.01	8-09-94	EPA 200.7
Mercury as Hg (T), mg/l	<.0002	8-09-94	EPA 245.1
Molybdenum as Mo (T), mg/l	<.04	8-09-94	EPA 200.7
Nickel as Ni (T), mg/1	<.01	8-09-94	EPA 200.7
Potassium as K (T), mg/l	1.37	8-10-94	EPA 200.7
Selenium as Se (T), mg/l	<.04	8-09-94	EPA 200.7
Sodium as Na (T), mg/l	292	8-10-94	EPA 200.7
Zinc as Zn (T), mg/1	<.01	8-09-94	EPA 200.7

NOTE: Sample temp. when submitted was 15.2°C on ice.

Approved By:

Jack Was Klinen

INCORPORATED
MAY 1 8 2007

LOS ANGELES DEPARTMENT OF WATER AND POWER HORSE CANYON MINE SEEP AND SPRING DATA AUGUST 1994

SEEP/SPRING Number	PH	CONDUCTIVITY	FLOW RATE	TEMPERATURE
INGITIDE	(units)	(umhos/cm @ 25 deg C)	(gpm)	(deg C)
HC-2	8.23	1100	1 /-	
HC-4	8.40	1190	15	4
HC-9	0.70	1120	<0.1	18
HC-11	7.74	1044	DRY	
HC-13	7.77	1244	< 0.5	8.5
HC-18	1.11	1980	<0.5 MOIST	15

SURFACE WATER Number	3		<u> </u>	
HCSW-1	7.77	1260	1,8	13
HCSW-2			DRY	
HCSW-3			DRY	

INCORPORATED

MAY 1 8 2007

EARTHFAX ENGINEERING INC. 7324 SOUTH 1300 EAST Midvale, Utah 84047

CHAIN-OF-CUSTODY FORM

Sampling Company: EarthFax Engineering Inc.	Sampling Personnel: JRP, JDG, CDH
Project Name: IPA Seep & Spring	Project Number: UC-391-02
Analytical Laboratory: Chemtech	Date of Shipment/Delivery: 8-05-94
Method of Shipment/Delivery: In person	Airbill Number: NA

Field Sample No.	Date Sampled	Time Sampled	Sample Type	No. of Containers	Remarks
HC-11	8-4-94	1200	WATER	4	
SPRING-9	8-3-94	1600	WATER	4	
SPRING-13	8-3-94	1700	WATER	4	
SPRING-1	8-3-94	1800	WATER	4	
SPRING-14	8-3-94	1730	WATER	4	
H-4	8-4-94	900	WATER	4	
HSW-1	8-4-94	1000	WATER	4	
H-2	8-4-94	1100	WATER	4	
SPRING-10	8-3-94	1630	WATER	4	

Relinquished by:	Date:	Time:	Received by://	Date:	Time:
Self late	his 5/94	3:00pm	Millister From	6-5-94	3:00
Relinduished by:	Date: /	Tim(e:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

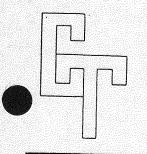
INCORPORATED

MAY 1 8 2007

Sample	<u> </u>	Cond	
	8.28	2020	
<u> </u>	7.77	1260	
HC-10	7.74	1244	
10	7.76	849	
8	7.74	915	
13	7.77	1980	
1	7.77	780	
8-1-94 H-4-	B-09-	+004	
8-4-94 H-4	8.40	1/20	10 (10 (10 (10 (10 (10 (10 (10 (10 (10 (
<u> </u>	7.97	1000	
128	7.64	/300	
CK-1 Ds	7.74	1/30	
Н-2	8.23	1190	
cK-Z	7.60	1290	
12-0	7. 88	3130	
9	8.15	925	
			t

INCORPORATED

MAY 1 8 2007



ANALYTICAL LABORATORY

6100 S. STRATLER MURRAY, UTAH 84107 PHONE: (801) 262-7299 FAX: (801) 262-7378

DATE: 8-26-94

T0:

EarthFax Engineering 7324 So. 1300 E. STE 100 Midvale, Utah 84047

SAMPLE ID: Lab #U012594

PROJECT: IPA Seep & Spring: HSW-1

DATE SAMPLED: 8-04-94
DATE SUBMITTED: 8-05-94

MOORPORATED

MAY 1 8 2007

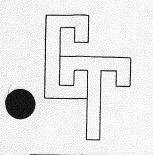
Div. of Oil, Gas & Mining

CERTIFICATE OF ANALYSIS

<u>DETECTED</u>	DATE ANA	LYZED/METHOD
1,010	8-08-94	EPA 160.1
453	8-12-94	EPA 130.2
8	8-09-94	SM 2320B
646	8-09-94	SM 2320B
21.5	8-08-94	EPA 325.3
0.27	8-09-94	EPA 340.2
<.4	8-19-94	SM4500
<.02	8-08-94	EPA 353.1
0.0052	8-06-94	EPA 354.1
0.041	8-10-94	SM4500
331	8-15-94	SM4500
<.1	8-08-94	EPA 376.1
0.277	8-09-94	EPA 200.7
<.04	8-09-94	EPA 200.7
0.049	8-09-94	EPA 200.7
0.171	8-09-94	EPA 200.7
<.01	8-09-94	EPA 200.7
60.2	8-10-94	EPA 200.7
<.01		EPA 200.7
<.01		EPA 200.7
	1,010 453 8 646 21.5 0.27 <.4 <.02 0.0052 0.041 331 <.1 0.277 <.04 0.049 0.171 <.01 60.2 <.01	1,0108-08-944538-12-9488-09-946468-09-9421.58-08-940.278-09-94<.4

Approved By:

Joil Western



ANALYTICAL LABORATORY

6100 S. STRATLER MURRAY, UTAH 84107 PHONE: (801) 262-7299 FAX: (801) 262-7378

DATE: 8-26-94

T0:

EarthFax Engineering 7324 So. 1300 E. STE 100 Midvale, Utah 84047

SAMPLE ID: Lab #U012594

PROJECT: IPA Seep & Spring: HSW-1

DATE SAMPLED: 8-04-94
DATE SUBMITTED: 8-05-94

CERTIFICATE OF ANALYSIS

DETECTED	DATE ANA	LYZED/METHOD
0.301	8-09-94	EPA 200.7
<.02	8-09-94	EPA 200.7
74.2	8-10-94	EPA 200.7
0.020	8-09-94	EPA 200.7
<.0002	8-09-94	EPA 245.1
<.04	8-09-94	EPA 200.7
<.01	8-09-94	EPA 200.7
5.23	8-10-94	EPA 200.7
<.04	8-09-94	EPA 200.7
197	8-10-94	EPA 200.7
<.01	8-09-94	EPA 200.7
	0.301 <.02 74.2 0.020 <.0002 <.04 <.01 5.23 <.04 197	0.301 8-09-94 <.02

NOTE: Sample temp. when submitted was 15.2°C on ice.

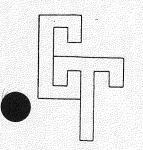
INCORPORATED

MAY 1 8 2007

Div. of Oil, Gas & Mining

Approved By:

Jul Workman



ANALYTICAL LABORATORY

6100 S. STRATLER MURRAY, UTAH 84107 PHONE: (801) 262-7299 FAX: (801) 262-7378

DATE: 8-26-94

TO: E

EarthFax Engineering 7324 So. 1300 E. STE 100 Midvale, Utah 84047

111.7

PROJECT: IPA Seep & Spring: H-2

DATE SAMPLED: 8-04-94
DATE SUBMITTED: 8-05-94

SAMPLE ID: Lab #U012595

INCORPORATED

MAY 1 8 2007

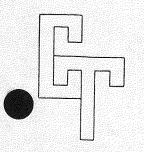
Div. of Oil, Gas & Mining

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	DATE ANA	LYZED/METHOD
TDS, mg/1	817	8-08-94	EPA 160.1
Hardness as CaCO ₃ , mg/1	385	8-12-94	EPA 130.2
Carbonate as CO ₃ , mg/l	<1	8-09-94	SM 2320B
Bicarbonate as HCO ₃ , mg/l	559	8-09-94	SM 2320B
Chloride as Cl, mg/l	17	8-08-94	EPA 325.3
Fluoride as F, mg/l	<.2	8-09-94	EPA 340.2
Ammonia as NH ₃ -N, mg/1	<.4	8-19-94	SM4500
Nitrate as NO₃-N, mg/l	0.279	8-08-94	EPA 353.1
Nitrite as NO₂-N, mg/l	<.005	8-06-94	EPA 354.1
Phosphorus as P (T), mg/1	<.02	8-10-94	SM4500
Sulfate as SO ₄ , mg/l	253	8-15-94	SM4500
Sulfide as S, mg/1	<.1	8-08-94	EPA 376.1
Aluminum as Al (T), mg/l	<.01	8-09-94	EPA 200.7
Arsenic as As (T), mg/1	<.04	8-09-94	EPA 200.7
Barium as Ba (T), mg/1	0.020	8-09-94	EPA 200.7
Boron as B (T), mg/l	0.119	8-09-94	EPA 200.7
Cadmium as Cd (T), mg/1	<.01	8-09-94	EPA 200.7
Calcium as Ca (T), mg/l	46.8	8-10-94	EPA 200.7
Chromium as Cr (T), mg/l	<.01	8-09-94	EPA 200.7
Copper as Cu (T), mg/l	<.01	8-09-94	EPA 200.7

Approved By:

Jul Ny am



ANALYTICAL LABORATORY

6100 S. STRATLER MURRAY, UTAH 84107 PHONE: (801) 262-7299 FAX: (801) 262-7378

DATE: 8-26-94

T0:

EarthFax Engineering 7324 So. 1300 E. STE 100 Midvale, Utah 84047

SAMPLE ID: Lab #U012595

HC-Z

PROJECT: IPA Seep & Spring: H-2

DATE SAMPLED: 8-04-94
DATE SUBMITTED: 8-05-94

CERTIFICATE OF ANALYSIS

PARAMETER	DETECTED	DATE ANA	LYZED/METHOD
Iron as Fe (T), mg/1	<.01	8-09-94	EPA 200.7
Lead as Pb (T), mg/1	<.02	8-09-94	EPA 200.7
Magnesium as Mg (T), mg/l	67.9	8-10-94	EPA 200.7
Manganese as Mn (T), mg/1	<.01	8-09-94	EPA 200.7
Mercury as Hg (T), mg/l	<.0002	8-09-94	EPA 245.1
Molybdenum as Mo (T), mg/l	<.04	8-09-94	EPA 200.7
Nickel as Ni (T), mg/l	<.01	8-09-94	EPA 200.7
Potassium as K (T), mg/l	1.74	8-10-94	EPA 200.7
Selenium as Se (T), mg/l	0.012	8-09-94	EPA 200.7
Sodium as Na (T), mg/l	157	8-10-94	EPA 200.7
Zinc as Zn (T), mg/1	<.01	8-09-94	EPA 200.7

NOTE: Sample temp. when submitted was 15.2°C on ice.

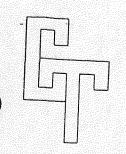
INCORPORATED

MAY 1 8 2007

Div. of Oil, Gas & Mining

Approved By:

Dee Workin



ANALYTICAL LABORATORY

6100 S. STRATLER MURRAY, UTAH 84107 PHONE: (801) 262-7299 FAX: (801) 262-7378

DATE: 8-26-94

TO: EarthFax Engineering

7324 So. 1300 E. STE 100

Midvale, Utah 84047

SAMPLE ID: Lab #U012593

HC-A

PROJECT: IPA Seep & Spring: H-4

DATE SAMPLED: 8-04-94

DATE SUBMITTED: 8-05-94

INCORPORATED

MAY 1 8 2007

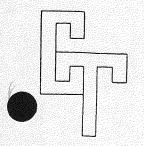
Div. of Oil, Gas & Mining

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	DATE ANALYZED/METHOD
TDS, mg/1	783	8-08-94 EPA 160.1
Hardness as CaCO ₃ , mg/l	448	8-12-94 EPA 130.2
Carbonate as CO ₃ , mg/l	2	8-09-94 SM 2320B
Bicarbonate as HCO ₃ , mg/1	593	8-09-94 SM 2320B
Chloride as C1, mg/l	13	8-08-94 EPA 325.3
Fluoride as F, mg/l	<.2	8-09-94 EPA 340.2
Ammonia as NH ₃ -N, mg/l	<.4	8-19-94 SM4500
Nitrate as NO ₃ -N, mg/l	0.036	8-08-94 EPA 353.1
Nitrite as NO₂-N, mg/l	0.0055	8-06-94 EPA 354.1
Phosphorus as P (T), mg/l	<.02	8-10-94 SM4500
Sulfate as SO ₄ , mg/l	215	8-15-94 SM4500
Sulfide as S, mg/l	0.29	8-08-94 EPA 376.1
Aluminum as Al (T), mg/l	0.048	8-09-94 EPA 200.7
Arsenic as As (T), mg/1	<.04	8-09-94 EPA 200.7
Barium as Ba (T), mg/l	0.066	8-09-94 EPA 200.7
Boron as B (T), mg/1	0.125	8-09-94 EPA 200.7
Cadmium as Cd (T), mg/1	<.01	8-09-94 EPA 200.7
Calcium as Ca (T), mg/1	62.2	8-10-94 EPA 200.7
Chromium as Cr (T), mg/l	<.01	8-09-94 EPA 200.7
Copper as Cu (T), mg/l	<.01	8-09-94 EPA 200.7

Approved By:

Jul Workhum



ANALYTICAL LABORATORY

6100 S. STRATLER MURRAY, UTAH 84107 PHONE: (801) 262-7299 FAX: (801) 262-7378

DATE: 8-26-94

T0:

EarthFax Engineering 7324 So. 1300 E. STE 100 Midvale, Utah 84047

SAMPLE ID: Lab #U012593

HC-4

PROJECT: IPA Seep & Spring: H-4

DATE SAMPLED: 8-04-94
DATE SUBMITTED: 8-05-94

INCORPORATED

MAY 1 8 2007

Div. of Oil, Gas & Mining

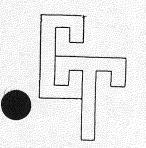
CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	DATE ANALYZED/METHOD
Iron as Fe (T), mg/1	0.069	8-09-94 EPA 200.7
Lead as Pb (T), mg/1	<.02	8-09-94 EPA 200.7
Magnesium as Mg (T), mg/l	77.5	8-10-94 EPA 200.7
Manganese as Mn (T), mg/l	0.010	8-09-94 EPA 200.7
Mercury as Hg (T), mg/1	<.0002	8-09-94 EPA 245.1
Molybdenum as Mo (T), mg/1	<.04	8-09-94 EPA 200.7
Nickel as Ni (T), mg/l	<.01	8-09-94 EPA 200.7
Potassium as K (T), mg/l	3.15	8-10-94 EPA 200.7
Selenium as Se (T), mg/l	<.04	8-09-94 EPA 200.7
Sodium as Na (T), mg/l	123	8-10-94 EPA 200.7
Zinc as Zn (T), mg/l	<.01	8-09-94 EPA 200.7

NOTE: Sample temp. when submitted was 15.2°C on ice.

Approved By:

July Jos fam



ANALYTICAL LABORATORY

6100 S. STRATLER MURRAY, UTAH 84107 PHONE: (801) 262-7299 FAX: (801) 262-7378

Div. of Oil, Gas & Mining

DATE: 8-26-94

T0:

EarthFax Engineering 7324 So. 1300 E. STE 100 Midvale, Utah 84047

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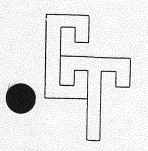
HC-11 SAMPLE ID: Lab #U012588

PROJECT: IPA Seep & Spring: HC-11

DATE SAMPLED: 8-04-94 DATE SUBMITTED: 8-05-94

CERTIFICATE OF ANALYSIS

	23.1E 01 / MML 1010		
<u>PARAMETER</u>	<u>DETECTED</u>	DATE ANA	LYZED/METHOD
TDS, mg/l	806	8-08-94	
Hardness as CaCO ₃ , mg/l	945	8-12-94	EPA 130.2
Carbonate as CO ₃ , mg/l	<1	8-09-94	SM 2320B
Bicarbonate as HCO ₃ , mg/1	653	8-09-94	SM 2320B
Chloride as Cl, mg/l	14	8-08-94	EPA 325.3
Fluoride as F, mg/l	<.2	8-09-94	EPA 340.2
Ammonia as NH ₃ -N, mg/1	<.4	8-19-94	SM4500
Nitrate as NO ₃ -N, mg/1	<.02	8-08-94	EPA 353.1
Nitrite as NO_2-N , mg/1	0.014	8-06-94	EPA 354.1
Phosphorus as P (T), mg/l	2.11	8-10-94	SM4500
Sulfate as SO ₄ , mg/l	258	8-15-94	SM4500
Sulfide as S, mg/l	<.1	8-08-94	EPA 376.1
Aluminum as Al (T), mg/l	40.9	8-09-94	EPA 200.7
Arsenic as As (T), mg/l	<.04	8-09-94	EPA 200.7
Barium as Ba (T), mg/l	0.664	8-09-94	EPA 200.7
Boron as B (T), mg/l	0.106	8-09-94	EPA 200.7
Cadmium as Cd (T), mg/1	<.01	8-09-94	EPA 200.7
Calcium as Ca (T), mg/l	200	8-10-94	EPA 200.7
Chromium as Cr (T), mg/l	0.042	8-09-94	EPA 200.7
Copper as Cu (T), mg/l	0.057	8-09-94	EPA 200.7



ANALYTICAL LABORATORY

6100 S. STRATLER MURRAY, UTAH 84107 PHONE: (801) 262-7299 FAX: (801) 262-7378

DATE: 8-26-94

T0:

EarthFax Engineering 7324 So. 1300 E. STE 100 Midvale, Utah 84047

INCORPORATED

MAY 1 8 2007

Div. of Oil, Gas & Mining

SAMPLE ID: Lab #U012588

PROJECT: IPA Seep & Spring: HC-11

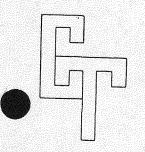
DATE SAMPLED: 8-04-94
DATE SUBMITTED: 8-05-94

CERTIFICATE OF ANALYSIS

<u>DETECTED</u>	DATE ANALYZED/METHOD
48.5	8-09-94 EPA 200.7
0.028	8-09-94 EPA 200.7
108	8-10-94 EPA 200.7
1.23	8-09-94 EPA 200.7
<.0002	8-09-94 EPA 245.1
<.04	8-09-94 EPA 200.7
0.048	8-09-94 EPA 200.7
4.05	8-10-94 EPA 200.7
<.04	8-09-94 EPA 200.7
108	8-10-94 EPA 200.7
0.132	8-09-94 EPA 200.7
	48.5 0.028 108 1.23 <.0002 <.04 0.048 4.05 <.04 108

NOTE: Sample temp. when submitted was 15.2°C on ice.

Approved By:



ANALYTICAL LABORATORY

6100 S. STRATLER MURRAY, UTAH 84107 PHONE: (801) 262-7299 FAX: (801) 262-7378

DATE: 8-26-94

T0:

EarthFax Engineering 7324 So. 1300 E. STE 100 Midvale, Utah 84047

INCORPORATED

MAY 1 8 2007

Div. of Oil, Gas & Mining

SAMPLE ID: Lab #U012590

PROJECT: IPA Seep & Spring: Spring 13

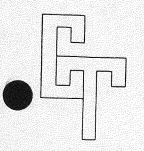
DATE SAMPLED: 8-03-94
DATE SUBMITTED: 8-05-94

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	DETECTED	DATE ANALYZED/METHOD
TDS, mg/l	1,620	8-08-94 EPA 160.1
Hardness as CaCO ₃ , mg/l	1,960	8-12-94 EPA 130.2
Carbonate as CO₃, mg/l	<1	8-09-94 SM 2320B
Bicarbonate as HCO ₃ , mg/1	626	8-09-94 SM 2320B
Chloride as Cl, mg/l	28.5	8-08-94 EPA 325.3
Fluoride as F, mg/l	0.22	8-09-94 EPA 340.2
Ammonia as NH ₃ -N, mg/l	<.4	8-19-94 SM4500
Nitrate as NO ₃ -N, mg/l	0.055	8-08-94 EPA 353.1
Nitrite as NO ₂ -N, mg/l	*0.0090	8-06-94 EPA 354.1
Phosphorus as P (T), mg/1	1.07	8-10-94 SM4500
Sulfate as SO ₄ , mg/l	802	8-15-94 SM4500
Sulfide as S, mg/1	<.1	8-08-94 EPA 376.1
Aluminum as Al (T), mg/l	63.3	8-09-94 EPA 200.7
Arsenic as As (T), mg/l	<.04	8-09-94 EPA 200.7
Barium as Ba (T), mg/l	0.833	8-09-94 EPA 200.7
Boron as B (T), mg/l	0.195	8-09-94 EPA 200.7
Cadmium as Cd (T), mg/l	<.01	8-09-94 EPA 200.7
Calcium as Ca (T), mg/l	450	8-10-94 EPA 200.7
Chromium as Cr (T), mg/l	0.060	8-09-94 EPA 200.7
Copper as Cu (T), mg/1	0.11	8-09-94 EPA 200.7
*Run past holding time.	(2) 12 t)

Approved By:

Are Wo know



ANALYTICAL LABORATORY

6100 S. STRATLER MURRAY, UTAH 84107 PHONE: (801) 262-7299 FAX: (801) 262-7378

DATE: 8-26-94

T0:

EarthFax Engineering 7324 So. 1300 E. STE 100 Midvale, Utah 84047

INCORPORATED

MAY 1 8 2007

SAMPLE ID: Lab #U012590 PROJECT: IPA Seep & Spring: Spring 13

Div. of Oil, Gas & Mining

DATE SAMPLED: 8-03-94
DATE SUBMITTED: 8-05-94

CERTIFICATE OF ANALYSIS

	27.11E 01 111111E1010		
<u>PARAMETER</u>	<u>DETECTED</u>	DATE ANA	LYZED/METHOD
Iron as Fe (T), mg/7	86.4	8-09-94	EPA 200.7
Lead as Pb (T), mg/1	0.063	8-09-94	EPA 200.7
Magnesium as Mg (T), mg/1	180	8-10-94	EPA 200.7
Manganese as Mn (T), mg/l	5.81	8-09-94	EPA 200.7
Mercury as Hg (T), mg/1	<.0002	8-09-94	EPA 245.1
Molybdenum as Mo (T), mg/1	<.04	8-09-94	EPA 200.7
Nickel as Ni (T), mg/l	0.101	8-09-94	EPA 200.7
Potassium as K (T), mg/1	9.37	8-10-94	EPA 200.7
Selenium as Se (T), mg/1	<.04	8-09-94	EPA 200.7
Sodium as Na (T), mg/1	223	8-10-94	EPA 200.7
Zinc as Zn (T), mg/l	0.209	8-09-94	EPA 200.7

NOTE: Sample temp. when submitted was 15.2°C on ice.

Approved By:

Jole Workhum

LOS ANGELES DEPARTMENT OF WATER AND POWER SOUTH LEASE PROPERTY SEEP AND SPRING DATA OCTOBER 1994

SEEP/	1	COND.	FLOW		
SPRING	PH	(umhos/cm)	RATE	TEMP	
Number	(units)	@ 25 deg C	<u> (gpm)</u>	(deg C)	COMMENTS
1			T BBV	1	
<u>.</u> 1A			DRY SEEP	ļ	
1B			DRY	8	
				1 40	The state of the s
2 3			SEEP	10	
3A			SEEP DRY	9	
3B			DRY		
3C			SEEP	9	<u> </u>
3D			SEEP	9	
			<u> </u>	6	Spour source most of the see
5			SEEP	U	Snow covers most of the area
3			SEEP		Snow covers most of the area Snow covers most of the area
7			3	6	Snow melt
3	8.14	688	1.5	7	Snow melt included
3A		- 000	1.0	6	Snow melt included
3B			NA NA	U	Show melt included
9	8.21	712	SEEP	9	
R			NA NA		<u> </u>
0	8.27	813	3.5	12	Some snow melt
1			WET	14	Some show men
2	7.87	1660	SEEP	8	Standing water
2A	8.35	1330	0.5	7	Ctariding water
2B	8.19	1170	1	8	Snow melt and water from 12C
2C	8.50	1540	1	8.5	Chow frient and water from 12C
2D	8.50	1980	<0.25	10	
2E			SEEP		
3	8.16	1180	1	10	Flows approx. 100'
3A			DRY		I towe approx. 100
3B			SEEP		No flow but damp
3Z			SEEP		No flow but damp
4	8.41	1620	2	9	HIO HOW BUT GUILLE
4A			SEEP		No flow but damp
5			DRY		
5A	8.63	885	<1	9	Large rock in creek channel
5B			SEEP		Large resident Greek Granner
5C			DRY		INCORPORATED
6A			DRY		14114 4 0 0007
6B			DRY		MAY 1 8 2007
6C			DRY		
6Z	7.90	882	2	7	Div. of Oil, Gas & Mining
7	8.12	1130	<0.5	9	
7A			WET		
7B	LOCATIO	ON ABANDONE			LOCATION ABANDONED
8	7.96	870	<0.5	9	
9A		77.7	SEEP	Y	
9B	7.88	890	1	7	
9C			-	and the second s	Re-emergence of 19B
0 2	8.39	963	2	The second secon	Some snowmelt contribution
<u> </u>			DRY	∀	COLLEGE COLLEGE

INCORPORATED

MAY 1 8 2007

Div. of Oil, Gas & Mining

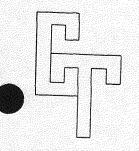
Page 1 of 2

CHAIN-OF-CUSTODY FORM

Sampling Company: SARTUTAX	Sampling Personnel: CSH T16 (TD6
Project Name: ITH SCE HEEFKING ALCES	Project Number: UC-3910 Z
Analytical Laboratory: 4/2MTECH	Date of Shipment/Delivery: 10-28-94
Method of Shipment/Delivery: 441/10	Airbill Number:

Fleid Sample No.	Date Sampled	Time Sampled	Sample Type	No. of Containers	Remarks
16-7-12-6	10-27-94	1730	WATER	4	SEE ATTACHED For ALNAIN 4 ,
16-8-6-1	10-27 94	1745	/	4.	/ · /
16-8-8-10	10-28-94	1015		4	ļ
16-8-8-5	10.28.94	1000	Ì	4	
CK-1: -	10-28-94	1030		5)
CK-Z				5	
RF-1	Continue to the continue of the continue of the con-	Contracting Systems (Section 2) and Contraction of the Contraction of		5	
RF-Z	10-27-94	1745	(5	

Relinquished by:	Date: - 10/29/94	Time: 17/0	Received by:	Date:	Time: 5:/0
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:



ANALYTICAL LABORATORY

6100 S. STRATLER MURRAY, UTAH 84107 PHONE: (801) 262-7299 FAX: (801) 262-7378

DATE: 11-16-94

INCORPORATED

MAY 1 8 2007

Div. of Oil, Gas & Mining

T0: EarthFax Engineering 7324 So. 1300 E. STĚ 100 Midvale, Utah 84047

SAMPLE ID: Lab #U017435

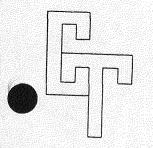
PROJECT: IPA Seep & Spring Fall 94': 14

DATE SAMPLED: 10-26-94 DATE SUBMITTED: 10-28-94

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	DATE ANALYZED/METHOD
TDS, mg/1	1,420	11-01-94 EPA 160.2
Hardness as CaCO3, mg/1	570	11-11-94 EPA 130.2
Carbonate as CO3, mg/1	<1	11-07-94 SM2320B
Bicarbonate as HCO ₃ , mg/l	571	11-07-94 SM2320B
Chloride as Cl, mg/l	45	11-09-94 EPA 325.3
Fluoride as F, mg/1	0.24	11-04-94 EPA 340.2
Ammonia as NH ₃ -N, mg/1	<.4	11-08-94 SM4500
Nitrate as NO ₃ -N, mg/l	<.4	10-31-94 EPA 353.1
Nitrite as NO₂-N, mg/l	<.005	10-28-94 EPA 354.1
Phosphate as PO ₄ -P, mg/1	0.033	11-14-94 SM4500
Sulfate as SO ₄ , mg/1	678	11-05/07 EPA 375.4/SM4500
Sulfide as S, mg/1	<.1	10-31-94 EPA 376.1
Aluminum as Al, mg/l	0.105	11-02-94 EPA 200.7
Arsenic as As, mg/1	<.04	11-02-94 EPA 200.7
Barium as Ba, mg/l	0.018	11-02-94 EPA 200.7
Boron as B, mg/1	0.212	11-02-94 EPA 200.7
Cadmium as Cd, mg/1	<.005	11-02-94 EPA 200.7
Calcium as Ca, mg/1	58.6	11-02-94 EPA 200.7
Chromium as Cr, mg/l	<.005	11-02-94 EPA 200.7
Copper as Cu, mg/1	<.005	11-02-94 EPA 200.7
Iron as Fe, mg/l	0.102	11-02-94 EPA 200.7

Approved By: Jack Workmann



ANALYTICAL LABORATORY

6100 S. STRATLER MURRAY, UTAH 84107 PHONE: (801) 262-7299 FAX: (801) 262-7378

DATE: 11-16-94

MOGRPORATED

MAY 1 8 2007

Div. of Oil, Gas & Mining

T0:

EarthFax Engineering 7324 So. 1300 E. STĔ 100 Midvale, Utah 84047

SAMPLE ID: Lab #U017435

PROJECT: IPA Seep & Spring Fall 94': 14

DATE SAMPLED: 10-26-94 DATE SUBMITTED: 10-28-94

CERTIFICATE OF ANALYSIS

PARAMETER	<u>DETECTED</u>	DATE ANALYZED/METHOD
Lead as Pb, mg/l	<.005	11-02-94 EPA 200.7
Magnesium as Mg, mg/1	99.3	11-02-94 EPA 200.7
Manganese as Mn, mg/1	<.01	11-02-94 EPA 200.7
Mercury as Hg, mg/1	<.0002	11-02-94 EPA 245.1
Molybdenum as Mo, mg/1	0.013	11-02-94 EPA 200.7
Nickel as Ni, mg/l	0.0069	11-02-94 EPA 200.7
Potassium as K, mg/l	1.34	11-02-94 EPA 200.7
Selenium as Se, mg/l	<.04	11-02-94 EPA 200.7
Sodium as Na, mg/l	268	11-02-94 EPA 200.7
Zinc as Zn, mg/]	0.054	11-02-94 EPA 200.7

NOTE: Sample temp. when submitted was 10.1°C on ice.

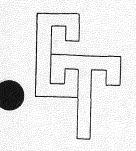
Approved By: Joel Wiskman

LOS ANGELES DEPARTMENT OF WATER AND POWER HORSE CANYON MINE SEEP AND SPRING DATA OCTOBER AUGUST 1994

EEP/SPRING		CONDUCTIVITY	FLOW	TEMP	COMMENTS
Number	(units)	(umhos/cm @ 25 deg C)	(gpm)	(deg C)	
HC-2					
HC-4	8.28	1040	17	8	
	8.31	1120	0.75	5.5	Possible snowmelt
HC-9			DRY		Replace w/ HC-14
HC-11	7.95	1070	< 0.25	7	
HC-13	8.71	1610	2	9	
HC-18			SEEP		not sampled, flow too low
* HC-14					New location for Spring 95
SURFACE WAT	ER				
Number					
HCSW-1	8.04	1220	7	8	Snow melt included
HCSW-2			DRY		
HCSW-3			DRY		
) —					

INCORPORATED
MAY 1 8 2007

Div. of Oil, Cas 4 ...



ANALYTICAL LABORATORY

6100 S. STRATLER MURRAY, UTAH 84107 PHONE: (801) 262-7299 FAX: (801) 262-7378

EarthFax Engineering T0: 7324 So. 1300 E. STĚ 100

Midvale, Utah 84047

SAMPLE ID: Lab #U017437

PROJECT: IPA Seep & Spring Fall 94': HCSW-1

DATE SAMPLED: 10-27-94 DATE SUBMITTED: 10-28-94 DATE: 11-16-94

INCORPORATED

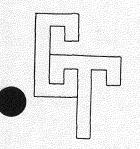
MAY 1 8 2007

Div. of Oil, Gas & Mining

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	DATE ANALYZED/METHOD
TDS, mg/l	889	11-01-94 EPA 160.2
Hardness as CaCO ₃ , mg/1	405	11-11-94 EPA 130.2
Carbonate as CO3, mg/1	<1	11-07-94 SM2320B
Bicarbonate as HCO ₃ , mg/1	599	11-07-94 SM2320B
Chloride as Cl, mg/l	21	11-09-94 EPA 325.3
Fluoride as F, mg/l	0.25	11-04-94 EPA 340.2
Ammonia as NH ₃ -N, mg/1	<.4	11-08-94 SM4500
Nitrate as NO ₃ -N, mg/l	0.032	10-31-94 EPA 353.1
Nitrite as NO ₂ -N, mg/1	<.005	10-28-94 EPA 354.1
Phosphate as PO ₄ -P, mg/1	0.027	11-14-94 SM4500
Sulfate as SO ₄ , mg/1	295	11-05/07 EPA 375.4/SM4500
Sulfide as S, mg/1	<.1	10-31-94 EPA 376.1
Aluminum as Al, mg/l	0.384	11-02-94 EPA 200.7
Arsenic as As, mg/l	<.04	11-02-94 EPA 200.7
Barium as Ba, mg/l	0.096	11-02-94 EPA 200.7
Boron as B, mg/l	0.171	11-02-94 EPA 200.7
Cadmium as Cd, mg/l	<.005	11-02-94 EPA 200.7
Calcium as Ca, mg/l	53.8	11-02-94 EPA 200.7
Chromium as Cr, mg/1	0.012	11-02-94 EPA 200.7
Copper as Cu, mg/1	<.005	11-02-94 EPA 200.7
Iron as Fe, mg/l	0.164	11-02-94 EPA 200.7

Approved By: Goll Marking.



ANALYTICAL LABORATORY

6100 S. STRATLER MURRAY, UTAH 84107 PHONE: (801) 262-7299 FAX: (801) 262-7378

DATE: 11-16-94

T0:

EarthFax Engineering 7324 So. 1300 E. STE 100

Midvale, Utah 84047

SAMPLE ID: Lab #U017437

PROJECT: IPA Seep & Spring Fall 94': HCSW-1

DATE SAMPLED: 10-27-94 DATE SUBMITTED: 10-28-94

CERTIFICATE OF ANALYSIS

PARAMETER	<u>DETECTED</u>	DATE ANALYZED/METHOD
Lead as Pb, mg/]	<.005	11-02-94 EPA 200.7
Magnesium as Mg, mg/l	65.7	11-02-94 EPA 200.7
Manganese as Mn, mg/l	0.022	11-02-94 EPA 200.7
Mercury as Hg, mg/l	<.0002	11-02-94 EPA 245.1
Molybdenum as Mo, mg/l	<.01	11-02-94 EPA 200.7
Nickel as Ni, mg/l	0.0082	11-02-94 EPA 200.7
Potassium as K, mg/l	4.04	11-02-94 EPA 200.7
Selenium as Se, mg/1	<.04	11-02-94 EPA 200.7
Sodium as Na, mg/1	168	11-02-94 EPA 200.7
Zinc as Zn, mg/l	0.015	11-02-94 EPA 200.7

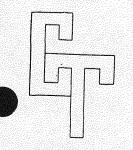
NOTE: Sample temp. when submitted was 10.1°C on ice.

INCORPORATED

MAY 1 8 2007

Div. of Oil, Gas & Minling

Approved By: Jul Monking



ANALYTICAL LABORATORY

6100 S. STRATLER MURRAY, UTAH 84107 PHONE: (801) 262-7299 FAX: (801) 262-7378

T0: EarthFax Engineering 7324 So. 1300 E. STE 100 Midvale, Utah 84047

SAMPLE ID: Lab #U017436

PROJECT: IPA Seep & Spring Fall 94': H-2

DATE SAMPLED: 10-27-94 DATE SUBMITTED: 10-28-94 DATE: 11-16-94

INCORPORATED

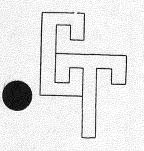
MAY 1 8 2007

Div. of Oil, Gas & Mining

CERTIFICATE OF ANALYSIS

DETECTED	DATE ANALYZED/METHOD
 783	11-01-94 EPA 160.2
390	11-11-94 EPA 130.2
<1	11-07-94 SM2320B
561	11-07-94 SM2320B
18	11-09-94 EPA 325.3
0.18	11-04-94 EPA 340.2
<.4	11-08-94 SM4500
0.159	10-31-94 EPA 353.1
	10-28-94 EPA 354.1
<.02	11-14-94 SM4500
252	11-05/07 EPA 375.4/SM4500
<.1	10-31-94 EPA 376.1
0.112	11-02-94 EPA 200.7
<.04	11-02-94 EPA 200.7
0.022	11-02-94 EPA 200.7
	390 <1 561 18 0.18 <.4 0.159 <.005 <.02 252 <.1 0.112

Approved By: Jul Morkman



ANALYTICAL LABORATORY

6100 S. STRATLER MURRAY, UTAH 84107 PHONE: (801) 262-7299 FAX: (801) 262-7378

DATE: 11-16-94

T0:

EarthFax Engineering

7324 So. 1300 E. STĚ 100 Midvale, Utah 84047

SAMPLE ID: Lab #U017436

PROJECT: IPA Seep & Spring Fall 94': H-2

DATE SAMPLED: 10-27-94 DATE SUBMITTED: 10-28-94

CERTIFICATE OF ANALYSIS

PARAMETER	<u>DETECTED</u>	DATE ANALYZED/METHOD
Lead as Pb, mg/1	<.005	11-02-94 EPA 200.7
Magnesium as Mg, mg/l	66.4	11-02-94 EPA 200.7
Manganese as Mn, mg/l	<.01	11-02-94 EPA 200.7
Mercury as Hg, mg/1	<.0002	11-02-94 EPA 245.1
Molybdenum as Mo, mg/l	<.01	11-02-94 EPA 200.7
Nickel as Ni, mg/l	<.005	11-02-94 EPA 200.7
Potassium as K, mg/1	1.56	11-02-94 EPA 200.7
Selenium as Se, mg/l	<.04	11-02-94 EPA 200.7
Sodium as Na, mg/l	154	11-02-94 EPA 200.7
Zinc as Zn, mg/1	0.020	11-02-94 EPA 200.7

NOTE: Sample temp. when submitted was 10.1°C on ice.

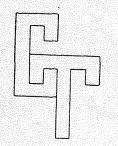
INCORPORATED

MAY 1 8 2007

Div. of Oil, Gas & Mining

Approved By:

Free Workmann



ANALYTICAL LABORATORY

6100 S. STRATLER MURRAY, UTAH 84107 PHONE: (801) 262-7299 FAX: (801) 262-7378

T0:

EarthFax Engineering 7324 So. 1300 E. STE 100 Midvale, Utah 84047

SAMPLE ID: Lab #U017432

PROJECT: IPA Seep & Spring Fall 94': H-4

DATE SAMPLED: 10-27-94 DATE SUBMITTED: 10-28-94 DATE: 11-16-94

INCORPORATED

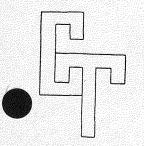
MAY 1 8 2007

Div. of Oil, Gas & Mining

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	DATE ANALYZED/METHOD
TDS, mg/1	885	11-01-94 EPA 160.2
Hardness as CaCO ₃ , mg/l	543	11-11-94 EPA 130.2
Carbonate as CO3, mg/1	<1	11-07-94 SM2320B
Bicarbonate as HCO ₃ , mg/1	669	11-07-94 SM2320B
Chloride as Cl, mg/l	18	11-09-94 EPA 325.3
Fluoride as F, mg/l	0.13	11-04-94 EPA 340.2
Ammonia as NH ₃ -N, mg/1	<.4	11-08-94 SM4500
Nitrate as NO ₃ -N, mg/1	<.02	10-31-94 EPA 353.1
Nitrite as NO ₂ -N, mg/1	<.005	10-28-94 EPA 354.1
Phosphate as PO ₄ -P, mg/1	0.030	11-14-94 SM4500
Sulfate as SO ₄ , mg/1	270	11-05/07 EPA 375.4/SM4500
Sulfide as S, mg/1	<.1	10-31-94 EPA 376.1
Aluminum as Al, mg/l	0.130	11-02-94 EPA 200.7
Arsenic as As, mg/l	<.04	11-02-94 EPA 200.7
Barium as Ba, mg/l	0.098	11-02-94 EPA 200.7
Boron as B, mg/1	0.115	11-02-94 EPA 200.7
Cadmium as Cd, mg/1	<.005	11-02-94 EPA 200.7
Calcium as Ca, mg/1	70.1	11-02-94 EPA 200.7
Chromium as Cr, mg/l	<.005	11-02-94 EPA 200.7
Copper as Cu, mg/l	<.005	11-02-94 EPA 200.7
Iron as Fe, mg/l	1.01	11-02-94 EPA 200.7

Approved By:___



ANALYTICAL LABORATORY

6100 S. STRATLER MURRAY, UTAH 84107 PHONE: (801) 262-7299 FAX: (801) 262-7378

DATE: 11-16-94

T0:

EarthFax Engineering 7324 So. 1300 E. STĚ 100 Midvale, Utah 84047

SAMPLE ID: Lab #U017432

PROJECT: IPA Seep & Spring Fall 94': H-4

DATE SAMPLED: 10-27-94 DATE SUBMITTED: 10-28-94 INCORPORATED

MAY 1 8 2007

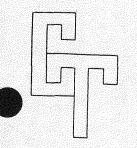
Div. of Oil, Gas & Mining

CERTIFICATE OF ANALYSIS

PARAMETER	<u>DETECTED</u>	DATE ANALYZED/METHOD
Lead as Pb, mg/1	<.005	11-02-94 EPA 200.7
Magnesium as Mg, mg/l	84.4	11-02-94 EPA 200.7
Manganese as Mn, mg/l	0.099	11-02-94 EPA 200.7
Mercury as Hg, mg/1	<.0002	11-02-94 EPA 245.1
Molybdenum as Mo, mg/l	<.01	11-02-94 EPA 200.7
Nickel as Ni, mg/1	0.0061	11-02-94 EPA 200.7
Potassium as K, mg/1	1.57	11-02-94 EPA 200.7
Selenium as Se, mg/l	<.04	11-02-94 EPA 200.7
Sodium as Na, mg/l	129	11-02-94 EPA 200.7
Zinc as Zn, mg/l	0.013	11-02-94 EPA 200.7

NOTE: Sample temp. when submitted was 10.1°C on ice.

Approved By: Jack Workman



ANALYTICAL LABORATORY

6100 S. STRATLER MURRAY, UTAH 84107 PHONE: (801) 262-7299 FAX: (801) 262-7378

DATE: 11-16-94

T0: EarthFax Engineering 7324 So. 1300 E. STĔ 100

Midvale, Utah 84047

SAMPLE ID: Lab #U017433

PROJECT: IPA Seep & Spring Fall 94': H-11 DATE SAMPLED: 10-27-94

DATE SUBMITTED: 10-28-94

INCORPORATED

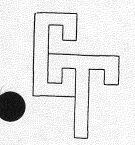
MAY 1 8 2007

Div. of Oil, Gas & Mining

CERTIFICATE OF ANALYSIS

PARAMETER	<u>DETECTED</u>	DATE ANALYZED/METHOD
TDS, mg/1	845	11-01-94 EPA 160.2
Hardness as CaCO ₃ , mg/1	560	11-11-94 EPA 130.2
Carbonate as CO3, mg/1	<1	11-07-94 SM2320B
Bicarbonate as HCO ₃ , mg/1	621	11-07-94 SM2320B
Chloride as Cl, mg/l	15	11-09-94 EPA 325.3
Fluoride as F, mg/l	0.15	11-04-94 EPA 340.2
Ammonia as NH ₃ -N, mg/1	<.4	11-08-94 SM4500
Nitrate as NO ₃ -N, mg/l	<.02	10-31-94 EPA 353.1
Nitrite as NO ₂ -N, mg/l	<.005	10-28-94 EPA 354.1
Phosphate as PO ₄ -P, mg/1	0.123	11-14-94 SM4500
Sulfate as SO ₄ , mg/l	265	11-05/07 EPA 375.4/SM4500
Sulfide as S, mg/l	<.1	10-31-94 EPA 376.1
Aluminum as Al, mg/l	2.83	11-02-94 EPA 200.7
Arsenic as As, mg/1	<.04	11-02-94 EPA 200.7
Barium as Ba, mg/1	0.125	11-02-94 EPA 200.7
Boron as B, mg/1	0.106	11-02-94 EPA 200.7
Cadmium as Cd, mg/1	<.005	11-02-94 EPA 200.7
Calcium as Ca, mg/1	77.7	11-02-94 EPA 200.7
Chromium as Cr, mg/l	0.0069	11-02-94 EPA 200.7
Copper as Cu, mg/l	<.005	11-02-94 EPA 200.7
Iron as Fe, mg/1	3.52	11-02-94 EPA 200.7
		HONGO H

Joel Waskinson



ANALYTICAL LABORATORY

6100 S. STRATLER MURRAY, UTAH 84107 PHONE: (801) 262-7299 FAX: (801) 262-7378

DATE: 11-16-94

T0:

EarthFax Engineering 7324 So. 1300 E. STE 100 Midvale, Utah 84047

SAMPLE ID: Lab #U017433

PROJECT: IPA Seep & Spring Fall 94': H-11

DATE SAMPLED: 10-27-94 DATE SUBMITTED: 10-28-94

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	DATE ANALYZED/METHOD
Lead as Pb, mg/1	 <.005	11-02-94 EPA 200.7
Magnesium as Mg, mg/l	84.3	11-02-94 EPA 200.7
Manganese as Mn, mg/l	0.169	11-02-94 EPA 200.7
Mercury as Hg, mg/]	<.0002	11-02-94 EPA 245.1
Molybdenum as Mo, mg/l	<.01	11-02-94 EPA 200.7
Nickel as Ni, mg/l	0.0071	11-02-94 EPA 200.7
Potassium as K, mg/1	3.11	11-02-94 EPA 200.7
Selenium as Se, mg/l	<.04	11-02-94 EPA 200.7
Sodium as Na, mg/1	102	11-02-94 EPA 200.7
Zinc as Zn, mg/1	0.058	11-02-94 EPA 200.7

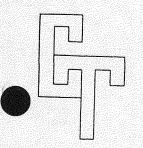
NOTE: Sample temp. when submitted was 10.1°C on ice.

INCORPORATED

MAY 1 8 2007

Div. of Oil, Gas & Mining

Approved By: Jack Workman



ANALYTICAL LABORATORY

6100 S. STRATLER MURRAY, UTAH 84107 PHONE: (801) 262-7299 FAX: (801) 262-7378

DATE: 11-16-94

INCORPORATED

MAY 1 8 2007

Div. of Oil, Gas & Mining

T0: EarthFax Engineering 7324 So. 1300 E. STĔ 100 Midvale, Utah 84047

SAMPLE ID: Lab #U017434

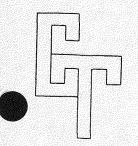
PROJECT: IPA Seep & Spring Fall 94': H-13

DATE SAMPLED: 10-27-94 DATE SUBMITTED: 10-28-94

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	DATE ANALYZED/METHOD
TDS, mg/]	1,400	11-01-94 EPA 160.2
Hardness as CaCO ₃ , mg/1	745	11-11-94 EPA 130.2
Carbonate as CO3, mg/l	<1	11-07-94 SM2320B
Bicarbonate as HCO ₃ , mg/1	607	11-07-94 SM2320B
Chloride as Cl, mg/l	25	11-09-94 EPA 325.3
Fluoride as F, mg/l	0.18	11-04-94 EPA 340.2
Ammonia as NH ₃ -N, mg/1	<.4	11-08-94 SM4500
Nitrate as NO ₃ -N, mg/l	<.08	10-31-94 EPA 353.1
Nitrite as NO₂-N, mg/l	<.005	10-28-94 EPA 354.1
Phosphate as PO ₄ -P, mg/1	0.074	11-14-94 SM4500
Sulfate as SO ₄ , mg/l	671	11-05/07 EPA 375.4/SM4500
Sulfide as S, mg/1	<.1	10-31-94 EPA 376.1
Aluminum as Al, mg/l	1.14	11-02-94 EPA 200.7
Arsenic as As, mg/l	<.04	11-02-94 EPA 200.7
Barium as Ba, mg/1	0.122	11-02-94 EPA 200.7
Boron as B, mg/1	0.161	11-02-94 EPA 200.7
Cadmium as Cd, mg/l	<.005	11-02-94 EPA 200.7
Calcium as Ca, mg/l	82.2	11-02-94 EPA 200.7
Chromium as Cr, mg/l	0.0054	11-02-94 EPA 200.7
Copper as Cu, mg/l	<.005	11-02-94 EPA 200.7
Iron as Fe, mg/l	2.47	11-02-94 EPA 200.7

Approved By: Jos Workas



ANALYTICAL LABORATORY

6100 S. STRATLER MURRAY, UTAH 84107 PHONE: (801) 262-7299 FAX: (801) 262-7378

DATE: 11-16-94

INCORPORATED

MAY 1 8 2007

Div. of Oil, Gas & Mining

TO: EarthFax Engineering 7324 So. 1300 E. STE 100

Midvale, Utah 84047

SAMPLE ID: Lab #U017434

PROJECT: IPA Seep & Spring Fall 94': H-13

DATE SAMPLED: 10-27-94 DATE SUBMITTED: 10-28-94

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	DATE ANALYZED/METHOD
Lead as Pb, mg/1	<.005	11-02-94 EPA 200.7
Magnesium as Mg, mg/l	121	11-02-94 EPA 200.7
Manganese as Mn, mg/l	0.167	11-02-94 EPA 200.7
Mercury as Hg, mg/l	<.0002	11-02-94 EPA 245.1
Molybdenum as Mo, mg/l	<.01	11-02-94 EPA 200.7
Nickel as Ni, mg/1	0.0082	11-02-94 EPA 200.7
Potassium as K, mg/1	4.61	11-02-94 EPA 200.7
Selenium as Se, mg/l	<.04	11-02-94 EPA 200.7
Sodium as Na, mg/1	210	11-02-94 EPA 200.7
Zinc as Zn, mg/1	0.018	11-02-94 EPA 200.7

NOTE: Sample temp. when submitted was 10.1°C on ice.

LOS ANGELES DEPARTMENT OF WATER AND POWER SOUTH LEASE PROPERTY SEEP AND SPRING DATA MAY 1995

SEEP/		COND.	FLOW		
SPRING	PH	(umhos/cm)	RATE	TEMP	
Number	(units)	@ 25 deg C	(gpm)	(deg C)	COMMENTS
1	8.02	700	T 29	-	1
1A	8.00			7	
<u></u> 1В	0.00	190	0.5	7	
2	7.80	760	0.5		could not find
3	8.00	710		7 8	
3A	7.88	590		- c 8	
3B	7.61	510	All the expension of the confidence of the confi	o	
3C	8.28	560		8	
3D	8.10	390	and the contract of the contra	8	
4	7.68	830		7	
5	8.05	950		- <u>'</u> 7	
3		, and the second second	<u> </u>		not found
7			SEEP		niot iodila
3	7.79	400	3	7	
ВА	8.06	160	7	8	
3B				<u> </u>	not found
9	8.21	650	20	8	iner reund
9R	7.86	590	1	8	
10	8.24	760	5	13	
11	8.11	1330	SEEP	12	
12	7.63	1710	<0.25	11	
12A	7.54	1550	4	8.5	
12B	8.05	1080	1.5	9	
12C	8.29	1090	<0.5	8.5	
12D	7.67	3800	SEEP	13	
12E	7.97	1950	<0.25	8	
3	8.17	1050	2	15	
13A			DRY		MCORPORATED
3B	8.37	1020	3	15	-0.5 × 0.5 No.6 × 0.0 × 0.5 ×
3Z	7.57	940	0.1	15	MAY 1 8 2007
4	8.11	1600	1	15	1981 1 0 2001
4A			DRY		Div. of Oil. Gas & Mining
5			WET		— DIV. OF Oil, Gas a mining
5A	8.23	560	0.25	12	The state of the s
5B			DRY		
5C			DRY		
6 (16Z)	8.19	610	1	12	WATER TANK
6A					Flow mixed w/ upgradient spring
6B					Flow mixed w/ upgradient spring
6C	7.53	560	0.2	13	3
6Z					See 16
7	8.31	750	<0.25	9	
7A			WET		
7B		ON ABANDONE	D 10/26/94		LOCATION ABANDONED
8	8.27	620	0.5	9	
9A	7.83	580	0.5	7	
9B	7.81	530	10	8	
9C					Re-emergence of 19B
0			SEEP		-
2			WET		

EarthFax Engineering, Inc. 7324 So. Union Park Avenue Suite 100 Midvale, UT 84047 (801) 561-1555

Page 1 of 2

CHAIN-OF-CUSTODY FORM

SEE ATTACHMENT FOR ANALYTICAL SUITE

Sampling Company: EARTH FAX	Sampling Personnel: JDG, CDH, GHP	
Project Name: IPA SEEP & SPRING MAY 95	Project Number: UC-39+02	
Analytical Laboratory: CHEMECH	Date of Shipment/Delivery: MAY 25,95	
Method of Shipment/Delivery: ガネルカ	Airbill Number: —	

Field Sample No.	Date Sampled	Time Sampled	Sample Type	No. of Containers	Remarks
H-14	5-24-95	0900	H20	4	
H-4	5-24-95	0900	H ₂ 0	4	
H-11	5-24-95	1000	H ₂ O	5	EXTRA HIS FOR QC, IF NEEDED
H-13	5-24-95	1030	HzO	4	INCORPORATED
H-18	5 th 95	1000	HzO	4	MAY 1 8 2007
#q	5-23-95	1430	HLO	Г ч	Div of Oil Gas & Minura
H-Z	5-23-95	1630	Y120	Ч	Tag .
#1	5-23-95	1400	H ₂ O	Ч	

Date:	Time:	Received by:	Date:	Time:
5-25-95	1015 /	Hruju Ahillin	5-25	1015
Date:	Time:	Received by:	Date:	Time:
Date:	Time:	Received by:	Date:	Time:
Date:	Time:	Received by:	Date:	Time:
Date:	Time:	Received by:	Date:	Time:
Date:	Time:	Received by:	Date:	Time:
さいてい かいかい かいてき かんしゅう かいしゅう かいしゅう かいしゅう かいしゅう しゅうしゅう しゅうしゅう しんしゅう しゅうしゅう	S-25-95 Date: Date: Date:	5-25-95 1015 Date: Time: Date: Time: Date: Time:	5-25-95 1015	5-25-95 1015

EarthFax Engineering, Inc. 7324 So. Union Park Avenue Suite 100
Midvale, UT 84047
(801) 561-1555

Page 2 of 2

CHAIN-OF-CUSTODY FORM

SEE ATTACHMENT TO ANALYTICAL SUITE

Sampling Company: EARTH FAX	Sampling Personnel: CDH, JDG, GHP
Project Name: TPA SEEP! SPEING MAY 95	Project Number: UC-39/-02
Analytical Laboratory: CHEMTECH	Date of Shipment/Delivery: MAY 25, 95
Method of Shipment/Delivery: HAND	Airbill Number:

Field Sample No.	Date Sampled	Time Sampled	Sample Type	No. of Containers	Remarks
SPRING 16	5-23-95	1000	HLO	4	
BRING 14	5-23 -945	1645	Hzo	y	
SPRING 10	5-23-95	1645	H20	4	
HCSW-1	5-23-95	1600	Иго	4	INCORPORATED
					MAY 1 8 2007
					Div. of Oil, Gas & Mining

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by: LD, Gan Relinquished by:	Date: 5-25-95 Date:	Time: 1015	Received by: Received by:	Date: Date: Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:



TO: EarthFax Engineering
7324 So. 1300 E. STE 100
Midvale, Utah 84047

SAMPLE ID: Lab #U027270

PROJECT: IPA Seep & Spring May 95: #1

DATE SAMPLED: 5-24-95
DATE SUBMITTED: 5-25-95

INCORPORATED

MAY 1 8 2007

Div. of Oil, Gas & Mining

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	DATE ANALYZED/METHOD
TDS, mg/l	850	6-01-95 EPA 160.1
Hardness as CaCO ₃ , mg/l	373	6-01-95 EPA 130.2
Bicarbonate as HCO ₃ , mg/1	527	6-06-95 SM 2320B
Carbonate as CO3, mg/l	9	6-06-95 SM 2320B
Chloride as Cl, mg/l	26.4	5-31-95 EPA 325.3
Fluoride as F, mg/l	0.24	6-06-95 EPA 340.2
Ammonia as NH ₃ -N, mg/l	<.4	5-25/6-5 SM 4500G
Nitrate as NO ₃ -N, mg/l	0.061	5-30-95 EPA 353.1
Nitrite as NO ₂ -N, mg/l	0.011	5-25-95 EPA 354.1
Ortho Phosphate as PO ₄ -P, mg/1	<.01	5-25-95 SM 4500E
Phosphorus as P (T), mg/l	<.02	5-25-95 SM 4500E
Sulfate as SO4, mg/1	297	5-29-95 SM 4500C/D
Sulfide as S, mg/1	<.1	5-30-95 EPA 376.1
Aluminum as Al, mg/l	<.1	5-30-95 EPA 200.7
Arsenic as As, mg/l	<.04	5-30-95 EPA 200.7
Barium as Ba, mg/l	0.053	5-30-95 EPA 200.7
Boron as B, mg/1	0.202	5-30-95 EPA 200.7
Cadmium as Cd, mg/1	<.01	5-30-95 EPA 200.7
Calcium as Ca, mg/l	51.6	5-30-95 EPA 200.7
		/

Approved By:

Tole Warren



TO: EarthFax Engineering
7324 So. 1300 E. STE 100
Midvale, Utah 84047

SAMPLE ID: Lab #U027270

PROJECT: IPA Seep & Spring May 95: #1

DATE SAMPLED: 5-24-95
DATE SUBMITTED: 5-25-95

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	DATE ANA	LYZED/METHOD
Chromium as Cr, mg/1	<.01	5-30-95	EPA 200.7
Copper as Cu, mg/1	<.01	5-30-95	
Iron as Fe, mg/l	0.100	5-30-95	EPA 200.7
Lead as Pb, mg/l	<.02	5-30-95	EPA 200.7
Magnesium as Mg, mg/l	63.8	5-30-95	EPA 200.7
Manganese as Mn, mg/1	0.013	5-30-95	EPA 200.7
Mercury as Hg, mg/l	<.0002	5-31-95	EPA 245.1
Molybdenum as Mo, mg/l	<.04	5-30-95	EPA 200.7
Nickel as Ni, mg/l	<.01	5-30-95	EPA 200.7
Potassium as K, mg/1	3.70	5-30-95	EPA 200.7
Selenium as Se, mg/l	<.04	5-30-95	EPA 200.7
Sodium as Na, mg/1	169		EPA 200.7
Zinc as Zn, mg/l	0.012		EPA 200.7

Approved By:

Det Workhum

INCORPORATED

MAY 1 8 2007

Div. of Oil, Gas & Mining



TO: EarthFax Engineering 7324 So. 1300 E. STE 100

Midvale, Utah 84047

SAMPLE ID: Lab #U027268

PROJECT: IPA Seep & Spring May 95: #9

DATE SAMPLED: 5-24-95
DATE SUBMITTED: 5-25-95

INCORPORATED

MAY 1 8 2007

Div. of Oil, Gas & Mining

CERTIFICATE OF ANALYSIS

/METHOD
160.1
130.2
320B
320B
325.3
340.2
500G
353.1
354.1
500E
500E
500C/D
376.1
200.7
200.7
200.7
200.7
200.7
200.7

Approved By:

801 262 7299 PHONE 801 262 7378 FAX



TO: EarthFax Engineering 7324 So. 1300 E. STE 100 Midvale, Utah 84047

SAMPLE ID: Lab #U027268

PROJECT: IPA Seep & Spring May 95: #9

DATE SAMPLED: 5-24-95
DATE SUBMITTED: 5-25-95

INCORPORATED

MAY 1 8 2007

Div. of Oil, Gas & Mining

CERTIFICATE OF ANALYSIS

PARAMETER	<u>DETECTED</u>	DATE ANALYZED/METHOD
Chromium as Cr, mg/1	<.01	5-30-95 EPA 200.7
Copper as Cu, mg/l	<.01	5-30-95 EPA 200.7
Iron as Fe, mg/l	0.067	5-30-95 EPA 200.7
Lead as Pb, mg/1	<.02	5-30-95 EPA 200.7
Magnesium as Mg, mg/l	52.4	5-30-95 EPA 200.7
Manganese as Mn, mg/1	0.052	5-30-95 EPA 200.7
Mercury as Hg, mg/l	<.0002	5-31-95 EPA 245.1
Molybdenum as Mo, mg/l	<.04	5-30-95 EPA 200.7
Nickel as Ni, mg/l	<.01	5-30-95 EPA 200.7
Potassium as K, mg/l	<.1	5-30-95 EPA 200.7
Selenium as Se, mg/l	<.04	5-30-95 EPA 200.7
Sodium as Na, mg/l	68.2	5-30-95 EPA 200.7
Zinc as Zn, mg/l	<.01	5-30-95 EPA 200.7

Approved By:

801 262 7299 PHONE 801 262 7378 FAX



T0: EarthFax Engineering 7324 So. 1300 E. STE 100 Midvale, Utah 84047

INCORPORATED

MAY 1 8 2007

SAMPLE ID: Lab #U027273

PROJECT: IPA Seep & Spring May 95: Spring 10

DATE SAMPLED: 5-24-95 DATE SUBMITTED: 5-25-95 Div. of Oil, Gas & Mining

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	DATE ANALYZED/METHOD
TDS, mg/l	603	6-01-95 EPA 160.1
Hardness as CaCO₃, mg/1	407	6-01-95 EPA 130.2
Bicarbonate as HCO ₃ , mg/l	446	6-06-95 SM 2320B
Carbonate as CO ₃ , mg/l	6	6-06-95 SM 2320B
Chloride as Cl, mg/l	12.2	5-31-95 EPA 325.3
Fluoride as F, mg/1	0.15	6-06-95 EPA 340.2
Ammonia as NH ₃ -N, mg/1	<.4	5-25/6-5 SM 4500G
Nitrate as NO ₃ -N, mg/l	0.048	5-30-95 EPA 353.1
Nitrite as NO₂-N, mg/l	<.005	5-25-95 EPA 354.1
Ortho Phosphate as PO ₄ -P, mg/l	<.01	5-25-95 SM 4500E
Phosphorus as P (T), mg/1	<.02	5-25-95 SM 4500E
Sulfate as SO ₄ , mg/l	171	5-29-95 SM 4500C/D
Sulfide as S, mg/l	<.1	5-30-95 EPA 376.1
Aluminum as Al, mg/l	<.1	5-30-95 EPA 200.7
Arsenic as As, mg/l	<.04	5-30-95 EPA 200.7
Barium as Ba, mg/1	0.055	5-30-95 EPA 200.7
Boron as B, mg/l	<.05	5-30-95 EPA 200.7
Cadmium as Cd, mg/l	<.01	5-30-95 EPA 200.7
Calcium as Ca, mg/1	69	5-30-95 /EPA 200.7

801 262 7299 PHONE 801 262 7378 FAX

6100 SOUTH STRATLER SALT LAKE CITY UTAH 84107 6905



TO: EarthFax Engineering
7324 So. 1300 E. STE 100
Midvale, Utah 84047

SAMPLE ID: Lab #U027273

PROJECT: IPA Seep & Spring May 95: Spring 10

DATE SAMPLED: 5-24-95
DATE SUBMITTED: 5-25-95

INCORPORATED

MAY 1 8 2007

Div. of Oil, Gas & Mining

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	DATE ANALYZED/METHOD
Chromium as Cr, mg/1	<.01	5-30-95 EPA 200.7
Copper as Cu, mg/l	<.01	5-30-95 EPA 200.7
Iron as Fe, mg/7	<.01	5-30-95 EPA 200.7
Lead as Pb, mg/1	<.02	5-30-95 EPA 200.7
Magnesium as Mg, mg/l	58	5-30-95 EPA 200.7
Manganese as Mn, mg/1	<.01	5-30-95 EPA 200.7
Mercury as Hg, mg/l	<.0002	5-31-95 EPA 245.1
Molybdenum as Mo, mg/l	<.04	5-30-95 EPA 200.7
Nickel as Ni, mg/l	<.01	5-30-95 EPA 200.7
Potassium as K, mg/l	0.91	5-30-95 EPA 200.7
Selenium as Se, mg/l	<.04	5-30-95 EPA 200.7
Sodium as Na, mg/1	61	5-30-95 EPA 200.7
Zinc as Zn, mg/1	<.01	5-30-95 EPA 200.7

Approved By:

801 262 7299 PHONE 801 262 7378 FAX



T0:

EarthFax Engineering 7324 So. 1300 E. STE 100 Midvale, Utah 84047

SAMPLE ID: Lab #U027272

PROJECT: IPA Seep & Spring May 95: Spring 14

DATE SAMPLED: 5-24-95
DATE SUBMITTED: 5-25-95

MAY 1 8 2007

Div. o. Oii, Gas & Mining

CERTIFICATE OF ANALYSIS

PARAMETER	DETECTED	DATE ANAI	YZED/METHOD
TDS, mg/1	1,340	6-01-95	EPA 160.1
Hardness as CaCO ₃ , mg/1	570	6-01-95	EPA 130.2
Bicarbonate as HCO ₃ , mg/l	541		SM 2320B
Carbonate as CO ₃ , mg/l	7	6-06-95	SM 2320B
Chloride as C1, mg/1	43.6	5-31-95	EPA 325.3
Fluoride as F, mg/1	0.23	6-06-95	EPA 340.2
Ammonia as NH₃-N, mg/1	<,4	5-25/6-5	SM 4500G
Nitrate as NO ₃ -N, mg/l	0.047		EPA 353.1
Nitrite as NO₂-N, mg/l	<.005	5-25-95	EPA 354.1
Ortho Phosphate as PO ₄ -P, mg/1	<.01	5-25-95	SM 4500E
Phosphorus as P (T), mg/l	<.02		SM 4500E
Sulfate as SO ₄ , mg/l	690		SM 4500C/D
Sulfide as S, mg/l	<.1		EPA 376.1
Aluminum as Al, mg/l	<.1	5-30-95	EPA 200.7
Arsenic as As, mg/l	<.04	5-30-95	EPA 200.7
Barium as Ba, mg/l	0.015	5-30-95	EPA 200.7
Boron as B, mg/l	0.242		EPA 200.7
Cadmium as Cd, mg/l	<.01		EPA 200.7
Calcium as Ca, mg/l	60.2	5-30-95	EPA 200.7

Approved By:

801 262 7299 PHONE 801 262 7378 FAY



TO: EarthFax Engineering
7324 So. 1300 E. STE 100
Midvale, Utah 84047

SAMPLE ID: Lab #U027272

PROJECT: IPA Seep & Spring May 95: Spring 14

DATE SAMPLED: 5-24-95
DATE SUBMITTED: 5-25-95

INCORPORATED
MAY 1 8 2007

Div. of Uli, Gas & Mining

CERTIFICATE OF ANALYSIS

PARAMETER	<u>DETECTED</u>	DATE ANA	LYZED/METHOD
Chromium as Cr, mg/l	<.01	5-30-95	EPA 200.7
Copper as Cu, mg/1	<.01	5-30-95	EPA 200.7
Iron as Fe, mg/l	0.015	5-30-95	EPA 200.7
Lead as Pb, mg/l	<.02	5-30-95	EPA 200.7
Magnesium as Mg, mg/l	103	5-30-95	EPA 200.7
Manganese as Mn, mg/l	<.01	5-30-95	EPA 200.7
Mercury as Hg, mg/7	<.0002	5-31-95	EPA 245.1
Molybdenum as Mo, mg/l	<.04	5-30-95	EPA 200.7
Nickel as Ni, mg/l	<.01	5-30-95	EPA 200.7
Potassium as K, mg/1	1.16	5-30-95	EPA 200.7
Selenium as Se, mg/l	<.04	5-30-95	EPA 200.7
Sodium as Na, mg/l	281	5-30-95	EPA 200.7
Zinc as Zn, mg/1	0.466	5-30-95	EPA 200.7

Approved By: April Working

801 262 7299 PHONE 801 262 7378 FAX



TO: EarthFax Engineering
7324 So. 1300 E. STE 100
Midvale, Utah 84047

SAMPLE ID: Lab #U027271

PROJECT: IPA Seep & Spring May 95: Spring 16

DATE SAMPLED: 5-24-95
DATE SUBMITTED: 5-25-95

INCORPORATED MAY 1 8 2007

Div. of Oil, Gas & Mining

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	DATE ANALYZED/METHOD
TDS, mg/l	584	6-01-95 EPA 160.1
Hardness as CaCO ₃ , mg/l	304	6-01-95 EPA 130.2
Bicarbonate as HCO ₃ , mg/1	457	6-06-95 SM 2320B
Carbonate as CO ₃ , mg/l	8	6-06-95 SM 2320B
Chloride as C1, mg/1	19.3	5-31-95 EPA 325.3
Fluoride as F, mg/l	0.17	6-06-95 EPA 340.2
Ammonia as NH ₃ -N, mg/l	<.4	5-25/6-5 SM 4500G
Nitrate as NO₃-N, mg/l	0.029	5-30-95 EPA 353.1
Nitrite as NO₂-N, mg/l	<.005	5-25-95 EPA 354.1
Ortho Phosphate as PO ₄ -P, mg/1	<.01	5-25-95 SM 4500E
Phosphorus as P (T), mg/1	<.02	5-25-95 SM 4500E
Sulfate as SO4, mg/l	137	5-29-95 SM 4500C/D
Sulfide as S, mg/l	<.1	5-30-95 EPA 376.1
Aluminum as Al, mg/l	<.1	5-30-95 EPA 200.7
Arsenic as As, mg/1	<.04	5-30-95 EPA 200.7
Barium as Ba, mg/l	0.048	5-30-95 EPA 200.7
Boron as B, mg/l	0.087	5-30-95 EPA 200.7
Cadmium as Cd, mg/1	<.01	5-30-95 EPA 200.7
Calcium as Ca, mg/l	43.1	5-30-95 EPA 200.7
~		3 30 33 LFA 200.7

Approved By:

gre Workin



TO: EarthFax Engineering
7324 So. 1300 E. STE 100
Midvale, Utah 84047

SAMPLE ID: Lab #U027271

PROJECT: IPA Seep & Spring May 95: Spring 16

DATE SAMPLED: 5-24-95
DATE SUBMITTED: 5-25-95

INCORPORATED
MAY 1 8 2007

Div. of Oil, Gas a Mining

CERTIFICATE OF ANALYSIS

PARAMETER	<u>DETECTED</u>	DATE ANA	LYZED/METHOD
Chromium as Cr, mg/1	<.01	5-30-95	EPA 200.7
Copper as Cu, mg/1	<.01	5-30-95	EPA 200.7
Iron as Fe, mg/l	0.161	5-30-95	EPA 200.7
Lead as Pb, mg/l	<.02	5-30-95	EPA 200.7
Magnesium as Mg, mg/l	50.2	5-30-95	EPA 200.7
Manganese as Mn, mg/l	<.01	5-30-95	EPA 200.7
Mercury as Hg, mg/1	<.0002	5-31-95	EPA 245.1
Molybdenum as Mo, mg/l	<.04	5-30-95	EPA 200.7
Nickel as Ni, mg/l	<.01	5-30-95	EPA 200.7
Potassium as K, mg/l	0.360	5-30-95	EPA 200.7
Selenium as Se, mg/l	<.04	5-30-95	EPA 200.7
Sodium as Na, mg/1	105	5-30-95	EPA 200.7
Zinc as Zn, mg/1	0.022	5-30-95	EPA 200.7

Approved By:

Jue Wolfman

LOS ANGELES DEPARTMENT OF WATER AND POWER HORSE CANYON MINE SEEP AND SPRING DATA MAY 1995

EEP/SPRING		CONDUCTIVITY	FLOW	TEMP	COMMENTS
Number	(units)	(umhos/cm @ 25 deg C)	(gpm)	(deg C)	
HC-2					The second secon
HC-2	8.16	790		9	
HC-11	7.56	680		13	
HC-13	7.87	700		8	
HC-18	7.55	1450		11	
HO-18	8.33	780	15	8	
* HC-14	7.54	1400		200	N. J. V. A.
	,	1400	0.5	8	New location for Spring 95

CUDEAGENIA					
SURFACE WAT Number	ER		· ·		
ivuiliber					
HCSW-1	8.23				
HCSW-2	0,20	850	8	8.5	Recent Precipitation
HCSW-3			DRY		
			DRY		

INCORPORATED
MAY 1 8 2007

Div. of Oil, Gas & Mining

2Samples collected 5/23-24/95, analyzed 5-25-95

Sample	l oH l	Conductivity
1	8.02	790
1A	8.00	790
2	7.80	760
3	8.00	710
3A	7.88	590
3B	7.61	510
3C	8.28	560
3D	8.10	390
4	7.68	830
5	8.05	950
8	7.79	400
8A	8.06	160
9	8.21	650
9R	7.86	590
10	8.24	760
11	8.11	1330
12	7.63	1710
12A	7.54	1550
12B	8.05	1080
12C	8.29	1090
12D	7.67	3800
12E	7.97	1950
13	8.17	1050
13B	8.37	1020
13Z	7.57	940
14	8.11	1600
15A	8.23	560
16	8.19	610
16C	7.53	560
17	8.31	750
18	8.27	620
19A	7.83	580
19B	7.81	530
H-1	8.23	850
H-2	8.16	790
H-4	7.56	730 680
H-11	7.87	700
H-13	7.55	1450
H-14	7.54	1400
H-18	8.33	780

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MAY 1 8 2007

Div. of Oil, Gas & Mining

Larthm'ak Engineering, Inc. 7324 So. Union Park Avenue Suite 163 Aidvale, UT 54047 (301) 561-1555

Page <u>|</u> of <u>Z</u>

CHAIN-OF-CUSTODY FORM

SEE AMACHIENT FOR

Sampling Company: デュッティデュッ	Sampling Personnel: 7 DG, CD H, 1747		
Project Name:	7.5 Project Number: 7.5 Tif-5.2		
Analytical Laboratory: (4 5 1/2	Date of Shipment/Delivery: /1/2 25-75		
Method of Shipment/Delivery: ピルベラ	Airbill Number: —		

Field Sample No.	Date Sampled	Time Sampled	Sample Type	No. of Containers	Remarks
11-14	5-24-95	0900	1120	4	
41.4	5-24-75	0900	H-0	4	
F1-11	5-24-95	1000	1170	5	EXTTA 1165 FOR QC IN NEE ED
H-15	5-24-95	1030	1/70	4	INCORPORATED
H-18	5 弱-95	1000	H-C	4	INCORPORATED
-# 	5 73-75	1430	41,0	Ч	MAY 1 8 2007
11-2	527.95	10 Se	11,0	4	Div. of Oil, Gas & Mining
#	5-23-95	1400	H2O	L)	

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
I Gan	5-25:95	1015 /	Liun Apilin	5.25	1///5
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

Page $\frac{2}{2}$ of $\frac{2}{2}$

CHAIN-OF-CUSTODY FORN

SEE ATTACHMENT

Sampling Company:	Sampling Personnel: _ ()=! - > -	
Project Name: 7 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Project Number: 1 / /- 12	
Analytical Laboratory:	Date of Shipment/Delivery:	
Method of Shipment/Delivery:	Airbill Number:	

Field Sample No.	Date Sampled	Time Sampled	Sample Type	No. of Containers	Remarks
STC-FIG. 10-	5 70:95	TOOK.	140	4	
SPEAC N	5 73 95	1645	Nec	i,	
že specing	5-33-95	17:45	V1-7	L)	INCORPORATED
HC363-1	5.71.75	Tuero e	My C	41	MAY 1.8.2007
					Div. of Oil, Gas & withing

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date: 5-26-95	Time: 101,5	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Date.	11116;



T0:

EarthFax Engineering 7324 So. 1300 E. STE 100 Midvale, Utah 84047

SAMPLE ID: Lab #U027274

PROJECT: IPA Seep & Spring May 95: HCSW-1

DATE SAMPLED: 5-24-95 DATE SUBMITTED: 5-25-95 INCORPORATED

MAY 1 8 2007

Div. of Un, Gas a Winning

CERTIFICATE OF ANALYSIS

화가가 보통하는 가는 사람이 하면 가장하는 것이다. 한 분들은 전에 전하는 이렇게 하는 이 모든 것은 것이다.			
<u>PARAMETER</u>	<u>DETECTED</u>	DATE ANA	ALYZED/METHOD
TDS, mg/1	468	6-01-95	EPA 160.1
Hardness as CaCO ₃ , mg/l	326	6-01-95	
Bicarbonate as HCO ₃ , mg/1	400	6-06-95	
Carbonate as CO ₃ , mg/1	6	6-06-95	
Chloride as Cl, mg/1	13.2	5-31-95	
Fluoride as F, mg/l	0.15	6-06-95	
Ammonia as NH_3-N , $mg/1$	<.4	5-25/6-5	SM 4500G
Nitrate as NO ₃ -N, mg/l	0.084	5-30-95	EPA 353.1
Nitrite as NO ₂ -N, mg/l	<.005	5-25-95	
Ortho Phosphate as PO ₄ -P, mg/l	<.01	5-25-95	SM 4500E
Phosphorus as P (T), mg/1	<.02	5-25-95	SM 4500E
Sulfate as SO ₄ , mg/l	92.3	5-29-95	EPA 375.4
Sulfide as S, mg/1	<.1	5-30-95	EPA 376.1
Aluminum as Al, mg/l	<.1	5-30-95	EPA 200.7
Arsenic as As, mg/1	<.04	5-30-95	EPA 200.7
Barium as Ba, mg/1	0.086	5-30-95	EPA 200.7
Boron as B, mg/1	0.053	5-30-95	EPA 200.7
Cadmium as Cd, mg/l	<.01	5-30-95	EPA 200.7
Calcium as Ca, mg/1	59.6	5-30-95	EPA 200.7

Approved By: By Wyfm



T0: EarthFax Engineering 7324 So. 1300 E. STE 100

Midvale, Utah 84047

SAMPLE ID: Lab #U027274

PROJECT: IPA Seep & Spring May 95: HCSW-1

DATE SAMPLED: 5-24-95 DATE SUBMITTED: 5-25-95 INCORPORATED

MAY 1 8 2007

Div. of Uii, Gas & Mining

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	DATE ANALYZED/METHOD
Chromium as Cr, mg/l	<.01	5-30-95 EPA 200.7
Copper as Cu, mg/l	<.01	5-30-95 EPA 200.7
Iron as Fe, mg/l	0.080	5-30-95 EPA 200.7
Lead as Pb, mg/1	<.02	5-30-95 EPA 200.7
Magnesium as Mg, mg/l	51.0	5-30-95 EPA 200.7
Manganese as Mn, mg/1	0.032	5-30-95 EPA 200.7
Mercury as Hg, mg/1	<.0002	5-31-95 EPA 245.1
Molybdenum as Mo, mg/1	<.04	5-30-95 EPA 200.7
Nickel as Ni, mg/l	<.01	5-30-95 EPA 200.7
Potassium as K, mg/1	0.871	5-30-95 EPA 200.7
Selenium as Se, mg/1	<.04	5-30-95 EPA 200.7
Sodium as Na, mg/l	48.5	5-30-95 EPA 200.7
Zinc as Zn, mg/1	<.01	5-30-95 EPA 200.7

Joe Waskinn



TO: EarthFax Engineering

7324 So. 1300 E. STE 100 Midvale, Utah 84047

MAY 1 8 2007

SAMPLE ID: Lab #U027269

PROJECT: IPA Seep & Spring May 95: H-2

DATE SAMPLED: 5-24-95
DATE SUBMITTED: 5-25-95

Div. of Uit, Gas & Mining

CERTIFICATE OF ANALYSIS

	TOUTE OF MINE 1313	
<u>PARAMETER</u>	<u>DETECTED</u>	DATE ANALYZED/METHOD
TDS, mg/1	802	6-01-95 EPA 160.1
Hardness as CaCO ₃ , mg/l	370	6-01-95 EPA 130.2
Bicarbonate as HCO ₃ , mg/l	527	6-06-95 SM 2320B
Carbonate as CO ₃ , mg/]	4	6-06-95 SM 2320B
Chloride as Cl, mg/l	18.8	5-31-95 EPA 325.3
Fluoride as F, mg/l	0.18	6-06-95 EPA 340.2
Ammonia as NH ₃ -N, mg/1	<.4	5-25/6-5 SM 4500G
Nitrate as NO ₃ -N, mg/l	0.31	5-30-95 EPA 353.1
Nitrite as NO ₂ -N, mg/l	<.005	5-25-95 EPA 354.1
Ortho Phosphate as PO ₄ -P, mg/l	<.01	5-25-95 SM 4500E
Phosphorus as P (T), mg/1	<.02	5-25-95 SM 4500E
Sulfate as SO ₄ , mg/l	259	5-29-95 SM 4500C/D
Sulfide as S, mg/l	<.1	5-30-95 EPA 376.1
Aluminum as Al, mg/l	<.1	5-30-95 EPA 200.7
Arsenic as As, mg/l	<.04	5-30-95 EPA 200.7
Barium as Ba, mg/l	0.022	5-30-95 EPA 200.7
Boron as B, mg/1	0.149	5-30-95 EPA 200.7
Cadmium as Cd, mg/l	<.01	5-30-95 EPA 200.7
Calcium as Ca, mg/l	47.5	5-30-95/ EPA 200.7

Approved By:

Joel Wufam



TO: EarthFax Engineering 7324 So. 1300 F STE

7324 So. 1300 E. STĔ 100 Midvale, Utah 84047

SAMPLE ID: Lab #U027269

PROJECT: IPA Seep & Spring May 95: H-2

DATE SAMPLED: 5-24-95
DATE SUBMITTED: 5-25-95

INCOPPORATED

MAY 1 8 2007

Div. of Uii. Gas a Mining

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	DATE ANALYZED/METHOD
Chromium as Cr, mg/1	<.01	5-30-95 EPA 200.7
Copper as Cu, mg/l	<.01	5-30-95 EPA 200.7
Iron as Fe, mg/1	0.023	5-30-95 EPA 200.7
Lead as Pb, mg/1	<.02	5-30-95 EPA 200.7
Magnesium as Mg, mg/1	67.0	5-30-95 EPA 200.7
Manganese as Mn, mg/l	<.01	5-30-95 EPA 200.7
Mercury as Hg, mg/l	<.0002	5-31-95 EPA 245.1
Molybdenum as Mo, mg/l	<.04	5-30-95 EPA 200.7
Nickel as Ni, mg/l	<.01	5-30-95 EPA 200.7
Potassium as K, mg/l	1.42	5-30-95 EPA 200.7
Selenium as Se, mg/l	<.04	5-30-95 EPA 200.7
Sodium as Na, mg/1	155	5-30-95 EPA 200.7
Zinc as Zn, mg/l	0.025	5-30-95 EPA 200.7

Approved By:

801 262 7299 PHONE 801 262 7378 FAX



T0: EarthFax Engineering 7324 So. 1300 E. STE 100 Midvale, Utah 84047

INCOPPORATED MAY 1 8 2007

SAMPLE ID: Lab #U027264

PROJECT: IPA Seep & Spring May 95: H-4

DATE SAMPLED: 5-24-95 DATE SUBMITTED: 5-25-95 Div. of Oil, Gas a Wining

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	DATE ANA	LYZED/METHOD
TDS, mg/1	688		EPA 160.1
Hardness as CaCO ₃ , mg/1	390	6-01-95	EPA 130.2
Bicarbonate as HCO ₃ , mg/1	505	6-06-95	SM 2320B
Carbonate as CO ₃ , mg/l	7	6-06-95	SM 2320B
Chloride as Cl, mg/l	12.2	5-31-95	EPA 325.3
Fluoride as F, mg/l	0.14	6-06-95	EPA 340.2
Ammonia as NH ₃ -N, mg/1	<.4	5-25/6-5	SM 4500G
Nitrate as NO ₃ -N, mg/l	<.02	5-30-95	EPA 353.1
Nitrite as NO ₂ -N, mg/l	<.005	5-25-95	EPA 354.1
Ortho Phosphate as PO ₄ -P, mg/l	<.01	5-25-95	SM 4500E
Phosphorus as P (T), mg/1	<.02	5-25-95	SM 4500E
Sulfate as SO ₄ , mg/l	191	5-29-95	SM 4500C/D
Sulfide as S, mg/l	<.1	5-30-95	EPA 376.1
Aluminum as Al, mg/l	<.1	5-30-95	EPA 200.7
Arsenic as As, mg/l	<.04	5-30-95	EPA 200.7
Barium as Ba, mg/l	0.069	5-30-95	EPA 200.7
Boron as B, mg/l	0.137	5-30-95	EPA 200.7
Cadmium as Cd, mg/1	<.01	5-30-95	EPA 200.7
Calcium as Ca, mg/1	54.7	5-30-95	EPA 200.7



TO: EarthFax Engineering
7324 So. 1300 E. STE 100
Midvale, Utah 84047

SAMPLE ID: Lab #U027264

PROJECT: IPA Seep & Spring May 95: H-4

DATE SAMPLED: 5-24-95
DATE SUBMITTED: 5-25-95

CERTIFICATE OF ANALYSIS

PARAMETER	DETECTED	DATE ANA	LYZED/METHOD
Chromium as Cr, mg/l	<.01	5-30-95	EPA 200.7
Copper as Cu, mg/1	<.01	5-30-95	EPA 200.7
Iron as Fe, mg/1	0.195	5-30-95	EPA 200.7
Lead as Pb, mg/1	<.02	5-30-95	EPA 200.7
Magnesium as Mg, mg/l	64.6	5-30-95	EPA 200.7
Manganese as Mn, mg/l	0.035	5-30-95	EPA 200.7
Mercury as Hg, mg/l	<.0002	5-31-95	EPA 245.1
Molybdenum as Mo, mg/l	<.04	5-30-95	EPA 200.7
Nickel as Ni, mg/l	<.01	5-30-95	EPA 200.7
Potassium as K, mg/l	1.30	5-30-95	EPA 200.7
Selenium as Se, mg/l	<.04	5-30-95	EPA 200.7
Sodium as Na, mg/1	107	5-30-95	EPA 200.7
Zinc as Zn, mg/7	0.148	5-30-95	EPA 200.7

Approved By:

Joll Wythram

INCORPORATED

MAY 1 8 2007

r Uni, Gas & Mining



TO: EarthFax Engineering
7324 So. 1300 E. STE 100
Midvale, Utah 84047

MAY 1 8 2007

Div. of Oil, Gas & Mining

SAMPLE ID: Lab #U027265

PROJECT: IPA Seep & Spring May 95: H-11

DATE SAMPLED: 5-24-95
DATE SUBMITTED: 5-25-95

CERTIFICATE OF ANALYSIS

PARAMETER	DETECTED	DATE ANAL	YZED/METHOD
TDS, mg/1	655		EPA 160.1
Hardness as CaCO ₃ , mg/1	422		EPA 130.2
Bicarbonate as HCO ₃ , mg/l	512		SM 2320B
Carbonate as CO ₃ , mg/l	2		SM 2320B
Chloride as Cl, mg/l	12.2		EPA 325.3
Fluoride as F, mg/l	0.13		EPA 340.2
Ammonia as NH ₃ -N, mg/l	<.4	5-25/6-5	
Nitrate as NO ₃ -N, mg/l	0.096		EPA 353.1
Nitrite as NO _z -N, mg/l	<.005		EPA 354.1
Ortho Phosphate as PO ₄ -P, mg/l	<.01		SM 4500E
Phosphorus as P (T), mg/1	<.02		SM 4500E
Sulfate as SO ₄ , mg/l	196		SM 4500C/D
Sulfide as S, mg/l	0.14		PA 376.1
Aluminum as Al, mg/l	0.372		PA 200.7
Arsenic as As, mg/l	<.04		PA 200.7
Barium as Ba, mg/l	0.108		PA 200.7
Boron as B, mg/1	0.102		PA 200.7
Cadmium as Cd, mg/7	<.01		PA 200.7
Calcium as Ca, mg/1	62.8		PA 200.7
			· / LUU./

Approved By:

Jul Wir Krum



TO: EarthFax Engineering 7324 So. 1300 E. STE 100 Midvale, Utah 84047

SAMPLE ID: Lab #U027265

PROJECT: IPA Seep & Spring May 95: H-11

DATE SAMPLED: 5-24-95
DATE SUBMITTED: 5-25-95

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MAY 18 2007
MAY 18 2007
DIV. OF OH, Gas 8 Mining

CERTIFICATE OF ANALYSIS

PARAMETER	<u>DETECTED</u>	DATE ANA	LYZED/METHOD
Chromium as Cr, mg/1	<.01	5-30-95	EPA 200.7
Copper as Cu, mg/1	<.01	5-30-95	EPA 200.7
Iron as Fe, mg/1	0.410	5-30-95	EPA 200.7
Lead as Pb, mg/1	<.02	5-30-95	EPA 200.7
Magnesium as Mg, mg/l	69.2	5-30-95	EPA 200.7
Manganese as Mn, mg/l	0.016	5-30-95	EPA 200.7
Mercury as Hg, mg/l	<.0002	5-31-95	EPA 245.1
Molybdenum as Mo, mg/l	<.04	5-30-95	EPA 200.7
Nickel as Ni, mg/l	<.01	5-30-95	EPA 200.7
Potassium as K, mg/l	2.29	5-30-95	EPA 200.7
Selenium as Se, mg/l	<.04	5-30-95	EPA 200.7
Sodium as Na, mg/1	92.1	5-30-95	EPA 200.7
Zinc as Zn, mg/l	0.012	5-30-95	EPA 200.7

Approved By:

801 262 7299 PHONE 801 262 7378 FAX

Jose Myfinn



EarthFax Engineering 7324 So. 1300 E. STE 100 Midvale, Utah 84047 T0:

SAMPLE ID: Lab #U027266

PROJECT: IPA Seep & Spring May 95: H-13

DATE SAMPLED: 5-24-95 DATE SUBMITTED: 5-25-95

CERTIFICATE OF ANALYSIS

	ONIE OF MINE 1919	
PARAMETER	<u>DETECTED</u>	DATE ANALYZED/METHOD
TDS, mg/1	1,320	6-01-95 EPA 160.1
Hardness as CaCO₃, mg/l	637	6-01-95 EPA 130.2
Bicarbonate as HCO ₃ , mg/1	564	6-06-95 SM 2320B
Carbonate as CO ₃ , mg/l	3	6-06-95 SM 2320B
Chloride as Cl, mg/l	22.8	5-31-95 EPA 325.3
Fluoride as F, mg/l	0.18	6-06-95 EPA 340.2
Ammonia as NH_3-N , $mg/1$	<.4	5-25/6-5 SM 4500G
Nitrate as NO ₃ -N, mg/1	<.02	5-30-95 EPA 353.1
Nitrite as NO₂-N, mg/l	<.005	5-25-95 EPA 354.1
Ortho Phosphate as PO ₄ -P, mg/l	<.01	5-25-95 SM 4500E
Phosphorus as P (T), mg/l	0.037	5-25-95 SM 4500E
Sulfate as SO ₄ , mg/1	645	5-29-95 SM 4500C/D
Sulfide as S, mg/l	<.1	5-30-95 EPA 376.1
Aluminum as Al, mg/l	0.417	5-30-95 EPA 200.7
Arsenic as As, mg/l	<.04	5-30-95 EPA 200.7
Barium as Ba, mg/l	0.056	5-30-95 EPA 200.7
Boron as B, mg/l	0.205	5-30-95 EPA 200.7
Cadmium as Cd, mg/l	<.01	5-30-95 EPA 200.7
Calcium as Ca, mg/l	71.4	5-30-95 EPA 200.7

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T0: EarthFax Engineering 7324 So. 1300 E. STE 100 Midvale, Utah 84047

SAMPLE ID: Lab #U027266

PROJECT: IPA Seep & Spring May 95: H-13

DATE SAMPLED: 5-24-95 DATE SUBMITTED: 5-25-95 MCOSCORATED
MAY 18 2007
MAY 18 2007
DIV OF OTHER GAS & MINING

CERTIFICATE OF ANALYSIS

<u>DETECTED</u>	DATE ANALYZED/METHOD
<.01	5-30-95 EPA 200.7
<.01	5-30-95 EPA 200.7
0.799	5-30-95 EPA 200.7
<.02	5-30-95 EPA 200.7
114	5-30-95 EPA 200.7
0.078	5-30-95 EPA 200.7
<.0002	5-31-95 EPA 245.1
<.04	5-30-95 EPA 200.7
<.01	5-30-95 EPA 200.7
5.77	5-30-95 EPA 200.7
<.04	5-30-95 EPA 200.7
213	5-30-95 EPA 200.7
0.034	5-30-95 EPA 200.7
	<.01 <.01 0.799 <.02 114 0.078 <.0002 <.04 <.01 5.77 <.04 213



MCORPORATED
MAY 18 2007
MAY 18 2007
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T0: EarthFax Engineering 7324 So. 1300 E. STE 100 Midvale, Utah 84047

SAMPLE ID: Lab #U027263

PROJECT: IPA Seep & Spring May 95: H-14

DATE SAMPLED: 5-24-95 DATE SUBMITTED: 5-25-95

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	DETECTED	DATE ANA	LYZED/METHOD
TDS, mg/1	1,430		EPA 160.1
Hardness as CaCO ₃ , mg/1	785	6-01-95	
Bicarbonate as HCO ₃ , mg/1	646	6-06-95	
Carbonate as CO₃, mg/l	<1	6-06-95	
Chloride as C1, mg/l	25.3	5-31-95	EPA 325.3
Fluoride as F, mg/l	0.17	6-06-95	EPA 340.2
Ammonia as NH ₃ -N, mg/1	<.4		SM 4500G
Nitrate as NO ₃ -N, mg/l	<.02	5-30-95	EPA 353.1
Nitrite as NO ₂ -N, mg/l	0.0062		EPA 354.1
Ortho Phosphate as PO ₄ -P, mg/l	<.01	5-25-95	SM 4500E
Phosphorus as P (T), mg/l	0.088	5-25-95	SM 4500E
Sulfate as SO4, mg/l	669	5-29-95	SM 4500C/D
Sulfide as S, mg/1	<.1	5-30-95	EPA 376.1
Aluminum as Al, mg/l	1.35	5-30-95	EPA 200.7
Arsenic as As, mg/l	<.04	5-30-95	EPA 200.7
Barium as Ba, mg/1	0.070		EPA 200.7
Boron as B, mg/1	0.226		EPA 200.7
Cadmium as Cd, mg/l	<.01		EPA 200.7
Calcium as Ca, mg/l	83.2		EPA 200.7



TO: EarthFax Engineering
7324 So. 1300 E. STE 100
Midvale, Utah 84047

SAMPLE ID: Lab #U027263

PROJECT: IPA Seep & Spring May 95: H-14

DATE SAMPLED: 5-24-95
DATE SUBMITTED: 5-25-95

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	DATE ANA	ALYZED/METHOD
Chromium as Cr, mg/l	<.01	5-30-95	EPA 200.7
Copper as Cu, mg/1	<.01	5-30-95	
Iron as Fe, mg/1	2.88	5-30-95	EPA 200.7
Lead as Pb, mg/1	<.02	5-30-95	EPA 200.7
Magnesium as Mg, mg/l	129	5-30-95	EPA 200.7
Manganese as Mn, mg/l	0.299	5-30-95	EPA 200.7
Mercury as Hg, mg/1	<.0002	5-31-95	EPA 245.1
Molybdenum as Mo, mg/1	<.04	5-30-95	EPA 200.7
Nickel as Ni, mg/l	<01	5-30-95	EPA 200.7
Potassium as K, mg/l	4.96	5-30-95	EPA 200.7
Selenium as Se, mg/l	<.04	5-30-95	EPA 200.7
Sodium as Na, mg/l	240	5-30-95	EPA 200.7
Zinc as Zn, mg/l	1.40	5-30-95	EPA 200.7

Approved By:

Joe Worksom

INCORPORATED
MAY 1 8 2007

Div. of Oil, Gas & Mining



TO: EarthFax Engineering 7324 So. 1300 E. STE 100 Midvale, Utah 84047

SAMPLE ID: Lab #U027267

PROJECT: IPA Seep & Spring May 95: H-18

DATE SAMPLED: 5-24-95
DATE SUBMITTED: 5-25-95

INCORPORATED

MAY 1 8 2007

Div. of Oil, Gas & Mining

CERTIFICATE OF ANALYSIS

	ELEGITIC OF THINKIN	<u>10</u>
PARAMETER	<u>DETECTED</u>	DATE ANALYZED/METHOD
TDS, mg/l	790	6-01-95 EPA 160.1
Hardness as CaCO₃, mg/1	336	6-01-95 EPA 130.2
Bicarbonate as HCO ₃ , mg/l	514	6-06-95 SM 2320B
Carbonate as CO ₃ , mg/l	9	6-06-95 SM 2320B
Chloride as C1, mg/1	25.9	5-31-95 EPA 325.3
Fluoride as F, mg/l	0.25	6-06-95 EPA 340.2
Ammonia as NH ₃ -N, mg/1	<.4	5-25/6-5 SM 4500G
Nitrate as NO ₃ -N, mg/l	0.060	5-30-95 EPA 353.1
Nitrite as NO ₂ -N, mg/1	<.005	5-25-95 EPA 354.1
Ortho Phosphate as PO ₄ -P, mg/l	<.01	5-25-95 SM 4500E
Phosphorus as P (T), mg/l	0.023	5-25-95 SM 4500E
Sulfate as SO4, mg/l	229	5-29-95 SM 4500C/D
Sulfide as S, mg/l	<.1	5-30-95 EPA 376.1
Aluminum as Al, mg/l	<.1	5-30-95 EPA 200.7
Arsenic as As, mg/l	<.04	5-30-95 EPA 200.7
Barium as Ba, mg/1	0.086	5-30-95 EPA 200.7
Boron as B, mg/]	0.251	5-30-95 EPA 200.7
Cadmium as Cd, mg/l	<.01	5-30-95 EPA 200.7
Calcium as Ca, mg/l	49.4	5-30-95 EPA 200.7

Approved By:

801 262 7299 PHONE 801 262 7378 FAX



TO: EarthFax Engineering 7324 So. 1300 E. STE 100 Midvale, Utah 84047

SAMPLE ID: Lab #U027267

PROJECT: IPA Seep & Spring May 95: H-18

DATE SAMPLED: 5-24-95
DATE SUBMITTED: 5-25-95

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	DETECTED	DATE ANALYZED/METHOD
Chromium as Cr, mg/1	<.01	5-30-95 EPA 200.7
Copper as Cu, mg/l	<.01	5-30-95 EPA 200.7
Iron as Fe, mg/l	0.076	5-30-95 EPA 200.7
Lead as Pb, mg/1	<.02	5-30-95 EPA 200.7
Magnesium as Mg, mg/]	55.4	5-30-95 EPA 200.7
Manganese as Mn, mg/7	<.01	5-30-95 EPA 200.7
Mercury as Hg, mg/l	<.0002	5-31-95 EPA 245.1
Molybdenum as Mo, mg/l	<.04	5-30-95 EPA 200.7
Nickel as Ni, mg/l	<.01	5-30-95 EPA 200.7
Potassium as K, mg/l	2.90	5-30-95 EPA 200.7
Selenium as Se, mg/l	<.04	5-30-95 EPA 200.7
Sodium as Na, mg/1	162	5-30-95 EPA 200.7
Zinc as Zn, mg/1	<.01	5-30-95 EPA 200.7

Approved By:

Joe Workham

INCORPORATED

MAY 1 8 2007

Div. of Uil, Gas & Mining

LOS ANGELES DEPARTMENT OF WATER AND POWER SOUTH LEASE PROPERTY SEEP AND SPRING DATA AUGUST 1995

1	SEEP/ SPRING Number	PH	COND. (umhos/cm)	FLOW RATE	TEMP	
Table	<u> </u>	(units	@ 25 deg C	<u> (gpm)</u>	(deg C)	COMMENTS
1A	1	8.20	67	0 1.5	12	1
18				the state of the s		<u>' </u>
2						
Second Part	2					
SA		8.23	93		17	7
38						
3C		7.96	638		10	
3D		8.07	62		And the second s	
Second		7.74		Annual Control of the	- contract of the contract of	
SEEP NOT FOUND SEEP NOT FOUND	4	8.00				
S	5					
7						NOT FOLIND
8A 7.98 676 0.25 13 8B 8.11 688 0.5 23 9P 8.01 780 0.5 14 9R 8.19 793 1 17 10 7.80 802 3 9.5 10A 7.92 758 1.5 10.5 NEW SPRING—AUGUST 1995 11 8.05 1151 3 15 TOTAL FLOW AT ROAD 12 SEEP 1 15 10.5 NEW SPRING—AUGUST 1995 11 8.05 1151 3 15 TOTAL FLOW AT ROAD 12 SEEP 12 12 12 12 12 12 12 12 12 12 14 12 </td <td>7</td> <td>7.78</td> <td>983</td> <td>3 05</td> <td>C</td> <td></td>	7	7.78	983	3 05	C	
8A 8.11 688 0.5 23 8B NOT FOUND 9 8.01 780 0.5 14 9R 8.19 793 1 17 10 7.80 802 3 9.5 10A 7.92 758 1.5 10.5 NEW SPRING – AUGUST 1995 11 8.05 1151 3 15 TOTAL FLOW AT ROAD 12 SEEP 19 12 12A 8.20 1124 <0.25	8					
Second	8A					
9	8B			,	ںے	
9R 8.19 793 1 177 10 7.80 802 3 9.5 110 7.80 802 3 9.5 11 8.05 1151 3 15 TOTAL FLOW AT ROAD 12 SEEP 12A 8.20 1124 <0.25 19 12C 8.66 1102 SEEP 25 12D 8.23 1213 <0.25 14 12E WET INCORPORATED 13 WET INCORPORATED 13A DRY MAY 1 8 2007 13B WET 1 13C 7.78 819 0.25 16 14 8.53 1127 1 24 14 8.53 1127 1 24 15 DRY Flow mixed wy upgradient spring 16B DRY Flow mixed wy upgradient spring 16C DRY 17A SEEP 18 16C DRY Flow mixed wy upgradient spring 17A SEEP 18 17A SEEP 18 18B 8.26 692 1 20 19C WET 18 18C Re-emergence of 19B	9	8.01	780	0.5	1/1	
10	9R					
10A	10					
11	10A				and the second s	
12		and the second of the second o				TOTAL FLOW AT BOAD
12A					10	TOTAL FLOW AT HOAD
12B		8.20	1124		10	
12C				Committee the contract of the		<u> </u>
12D			The second secon			
12E						
13	12E					
13A				the first of the contract of the first of the contract of the		INCORPORATED
13B						5.5.5.5
13Z						MAY 1 8 2007
14 8.53 1127 1 24 Div. of Oil, Gas & Mining 15A WET 15B DRY 15B DRY 15C WET 15C WET 16 (16Z) 7.97 818 0.75 14 WATER TANK 16A 16A 16B DRY Flow mixed w/ upgradient spring 16C DRY Flow mixed w/ upgradient spring 17C SEEP 18 NO SAMPLE 17A SEEP 18 NO SAMPLE 17A SEEP 18 NO SAMPLE 17B LOCATION ABANDONED 10/26/94 LOCATION ABANDONED 18 8.26 692 1 20 18 18 8.19 749 SEEP 18 18 18 18 19 749 SEEP 18 18 19 18 19 18<		7 78	810		16	
14A		8.53		0.23		
15	14A	0.00	1121	VAZET		
15A						
15B						
15C						
16 (16Z) 7.97 818 0.75 14 WATER TANK 16A						
16A		7 97	010		4.4	WATER TANK
16B		7.57	010		14	
16C						
177 SEEP 18 NO SAMPLE 178 LOCATION ABANDONED 10/26/94 LOCATION ABANDONED 18 8.26 692 1 20 19A 8.19 749 SEEP 18 19B 8.17 678 0.25 13 19C Re-emergence of 19B 20 WET				DDV		riow mixed w/ upgradient spring
17A				OEED ON 1	10	NO SAMPLE
17B LOCATION ABANDONED 10/26/94 LOCATION ABANDONED 18 8.26 692 1 20 19A 8.19 749 SEEP 18 19B 8.17 678 0.25 13 19C Re-emergence of 19B 20 WET					١٥	NO SAIVIPLE
18 8.26 692 1 20 19A 8.19 749 SEEP 18 19B 8.17 678 0.25 13 19C Re-emergence of 19B 20 WET	17B	LOCAT	ON ARANDONI	DIORECA		LOCATION ADAMDONED
19A 8.19 749 SEEP 18 19B 8.17 678 0.25 13 19C Re-emergence of 19B 20 WET		8 26		10/20/94	- 00	FOCATION ARANDONED
19B 8.17 678 0.25 13 19C Re-emergence of 19B 20 WET				OFFD	The state of the s	
19C Re-emergence of 19B				Alternative to the second of t	and the second s	
20 WET		0.17	6/8	0.25		Do analysis 1400
				VAILET		ne-emergence of 198
	22 22			DRY		

LOS ANGELES DEPARTMENT OF WATER AND POWER HORSE CANYON MINE SEEP AND SPRING DATA AUGUST 1995

P/SPRING		CONDUCTIVITY	FLOW	TEMP	COMMENTS
Number	(units)	(umhos/cm @ 25 deg C)	⊥ (gpm)	(deg C)	00
HC-2					·
HC-2 HC-4	8.24	955		12	
HC-11	7.75	1022	0.16	13	
HC-13	7.98	966	1.5	_12	N
⊣C = 13 HC = 18	8.03	1151	0.25	22	5-
<u> </u>	8.13	1051	0.5	11	FILLE DATA ONLY
* HC-14	8.08	1400	0.25	10	New Jase Control
		1400	0.25	10	New location for Spring 9
SURFACE WAT	ER				
Number					
HCSW-1	8.44	1110	3	16	
HCSW-2			DRY		
HCSW-3			DRY		

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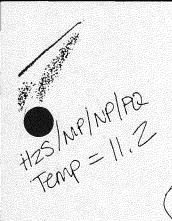
MAY 1 8 2007

Div. or Oil, Gas & Mining

INCORPORATED

JUL 27 2001

DIV OF OIL GAS & MINING



EarthFax Engineering, Inc. 7324 So. Union Park Avenue Suite 100
Midvale, UT 84047
(801) 561-1555

Page _____ of _____

CHAIN-OF-CUSTODY FORM

(غيالل)

	Sampling Personnel: LCD/CDH
Project Name: SLB SECP & Spring/Horse	Project Number: <u>UC 391, 02</u>
Analytical Laboratory: Chemfech	Date of Shipment/Delivery: 8-//-95
Method of Shipment/Delivery: Hand	Airbill Number: ——

Field Sample No.	Date Sampled	Time Sampled	Sample Type	No. of Containers	Remarks
	8-10-95	1500	WAter	4	
9	8-10-95	1346	WASEr	4	
4-18	8-10-95	1015	WAter	5	INCORPORATED
10	8-9-95	1200	WASer	6 4	MAY 1 8 2007
16	8-9-95	1134	Water	4	A CONTRACTOR OF THE PROPERTY O
14	8-9-95	1458	WATER	4	on, or on, das a winning

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
(AND) Hanaer	8-11-95	1103	Hawin Shelly	8-11	111:00
Relinquished by:	Date:	Time:	Peceived by:	Date:	Time:
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Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:



T0:

EarthFax Engineering 7324 So. 1300 E. STE 100 Midvale, Utah 84047

SAMPLE ID: Lab #U031444

PROJECT: SLB Seep & Spring/Horse Canyon: #1

DATE SAMPLED: 8-10-95 DATE SUBMITTED: 8-11-95 INCORPORATED

MAY 1 8 2007

Div. or Oil, Gas & Mining

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	DATE ANA	LYZED/METHOD
Bicarbonate as HCO ₃ , mg/1	433	8-16-95	SM17 2320B
Carbonate as CO ₃ , mg/l	<1	8-16-95	SM17 2320B
Ammonia as NH ₃ -N, mg/1	<.4	8-21-95	SM17 4500B
Chloride as Cl, mg/l	12	8-15-95	EPA 325.3
Fluoride as F, mg/l	<.2	8-15-95	EPA 340.2
Hardness as CaCO ₃ , mg/l	365	8-17-95	EPA 130.2
Mercury as Hg, mg/l	<.0002	8-17-95	EPA 245.1
Nitrate as NO₃-N, mg/l	0.090	8-22-95	EPA 353.1
Nitrite as NO₂-N, mg/l	0.0086	8-11-95	EPA 354.1
Sulfate as SO ₄ , mg/l	103	8-14-95	SM 4500
Sulfide as S, mg/l	<.1	8-17-95	EPA 376.1
TDS, mg/1	516	8-15-95	EPA 160.1
Aluminum as Al, mg/l	0.884	8-14-95	EPA 200.7
Arsenic as As, mg/1	<.04	8-14-95	EPA 200.7
Barium as Ba, mg/l	0.091	8-14-95	EPA 200.7
Boron as B, mg/1	0.12	8-14-95	EPA 200.7
Cadmium as Cd, mg/1	<.005	8-14-95	EPA 200.7
Calcium as Ca, mg/l	59.9	8-14-95	EPA 200.7
Chromium as Cr, mg/l	<.005	8-14-95	EPA 200.7
Copper as Cu, mg/1	<.01	8-14-95	EPA 200.7

801 262 7299 PHONE

6100 SOUTH STRATLER



TO: EarthFax Engineering
7324 So. 1300 E. STE 100
Midvale, Utah 84047

SAMPLE ID: Lab #U031444

PROJECT: SLB Seep & Spring/Horse Canyon: #1

DATE SAMPLED: 8-10-95
DATE SUBMITTED: 8-11-95

INCORPORATED

MAY 1 8 2007

Div. or Oil, Gas & Mining

CERTIFICATE OF ANALYSIS

ALYZED/METHOD
EPA 200.7
SM 4500E
EPA 200.7
EPA 200.7
EPA 200.7
EPA 200.7

Approved By:

801 262 7299 PHONE 801 262 7378 FAX Jel Waskerson



T0:

EarthFax Engineering 7324 So. 1300 E. STE 100 Midvale, Utah 84047

SAMPLE ID: Lab #U031445

PROJECT: SLB Seep & Spring/Horse Canyon: #9

DATE SAMPLED: 8-10-95 DATE SUBMITTED: 8-11-95 MOSERICORATED MAAY 1188 20007

Div. or Oil 4585 Sel WITHING

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	DATE ANA	LYZED/METHOD
Bicarbonate as HCO ₃ , mg/1	535	8-16-95	SM17 2320B
Carbonate as CO ₃ , mg/l	<1	8-16-95	
Ammonia as NH ₃ -N, mg/l	<.4	8-21-95	SM17 4500B
Chloride as C1, mg/1	11	8-15-95	
Fluoride as F, mg/l	<.2	8-15-95	
Hardness as CaCO ₃ , mg/l	411	8-17-95	EPA 130.2
Mercury as Hg, mg/1	<.0002	8-17-95	EPA 245.1
Nitrate as NO ₃ -N, mg/l	0.030	8-22-95	EPA 353.1
Nitrite as NO₂-N, mg/l	0.0071	8-11-95	EPA 354.1
Sulfate as SO ₄ , mg/l	110	8-14-95	SM 4500
Sulfide as S, mg/l	<.1	8-17-95	EPA 376.1
TDS, mg/1	659	8-15-95	EPA 160.1
Aluminum as Al, mg/l	0.335	8-14-95	EPA 200.7
Arsenic as As, mg/1	<.04	8-14-95	EPA 200.7
Barium as Ba, mg/l	0.104	8-14-95	EPA 200.7
Boron as B, mg/1	0.078	8-14-95	EPA 200.7
Cadmium as Cd, mg/l	<.005	8-14-95	EPA 200.7
Calcium as Ca, mg/1	64.1	8-14-95	EPA 200.7
Chromium as Cr, mg/l	<.005		EPA 200.7
Copper as Cu, mg/l	<.01		EPA 200.7

Approved By: 4

801 262 7299 PHONE 801 262 7378 FAX



TO: EarthFax Engineering
7324 So. 1300 E. STE 100
Midvale, Utah 84047

SAMPLE ID: Lab #U031445

PROJECT: SLB Seep & Spring/Horse Canyon: #9

DATE SAMPLED: 8-10-95
DATE SUBMITTED: 8-11-95

CERTIFICATE OF ANALYSIS

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<u>PARAMETER</u>	<u>DETECTED</u>	DATE ANA	LYZED/METHOD
Iron as Fe, mg/l	0.465	8-14-95	EPA 200.7
Lead as Pb, mg/1	0.026	8-14-95	EPA 200.7
Magnesium as Mg, mg/1	56.9	8-14-95	EPA 200.7
Manganese as Mn, mg/l	0.032	8-14-95	EPA 200.7
Molybdenum as Mo, mg/1	<.01	8-14-95	EPA 200.7
Nickel as Ni, mg/l	0.013	8-14-95	EPA 200.7
Phosphorus as P, mg/l	0.024	8-23-95	SM 4500E
Potassium as K, mg/1	0.59	8-14-95	EPA 200.7
Selenium as Se, mg/l	<.04	8-14-95	EPA 200.7
Sodium as Na, mg/l	69.5	8-14-95	EPA 200.7
Zinc as Zn, mg/1	0.023	8-14-95	EPA 200.7

INCORPORATED

MAY 1 8 2007

Div. of Oil, Gas & Mining

Approved By:

801 262 7299 PHONE 801 262 7378 FAX



TO: EarthFax Engineering

7324 So. 1300 E. STE 100 Midvale, Utah 84047

SAMPLE ID: Lab #U031446

PROJECT: SLB Seep & Spring/Horse Canyon: H-18

DATE SAMPLED: 8-10-95
DATE SUBMITTED: 8-11-95

INCORPORATED
MAY 1 8 2007

Div. of Oil, Gas & Mining

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	DATE ANALYZED/METHOD
Bicarbonate as HCO ₃ , mg/1	625	8-16-95 SM17 2320B
Carbonate as CO ₃ , mg/l	<1	8-16-95 SM17 2320B
Ammonia as NH ₃ -N, mg/1	<.4	8-21-95 SM17 4500B
Chloride as C1, mg/l	25	8-15-95 EPA 325.3
Fluoride as F, mg/l	0.25	8-15-95 EPA 340.2
Hardness as CaCO ₃ , mg/l	425	8-17-95 EPA 130.2
Mercury as Hg, mg/l	<.0002	8-17-95 EPA 245.1
Nitrate as NO ₃ -N, mg/l	<.01	8-22-95 EPA 353.1
Nitrite as NO ₂ -N, mg/1	0.0069	8-11-95 EPA 354.1
Sulfate as SO ₄ , mg/l	303	8-14-95 SM 4500
Sulfide as S, mg/l	<.1	8-17-95 EPA 376.1
TDS, mg/1	874	8-15-95 EPA 160.1
Aluminum as Al, mg/l	0.040	8-14-95 EPA 200.7
Arsenic as As, mg/1	<.04	8-14-95 EPA 200.7
Barium as Ba, mg/l	0.104	8-14-95 EPA 200.7
Boron as B, mg/1	0.33	8-14-95 EPA 200.7
Cadmium as Cd, mg/l	<.005	8-14-95 EPA 200.7
Calcium as Ca, mg/l	60.7	8-14-95 EPA 200.7
Chromium as Cr, mg/1	<.005	8-14-95 EPA 200.7
Copper as Cu, mg/l	<.01	8-14-95 EPA 200.7

Approved By:

801 262 7299 PHONE 801 262 7378 FAX



TO: EarthFax Engineering
7324 So. 1300 E. STE 100
Midvale, Utah 84047

SAMPLE ID: Lab #U031446

PROJECT: SLB Seep & Spring/Horse Canyon: H-18

DATE SAMPLED: 8-10-95
DATE SUBMITTED: 8-11-95

INCORPORATED
MAY 1 8 2007

Div. of Oil, Gas & Mining

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	DETECTED	DATE ANALYZED/METHOD
Iron as Fe, mg/l	0.095	8-14-95 EPA 200.7
Lead as Pb, mg/1	0.022	8-14-95 EPA 200.7
Magnesium as Mg, mg/l	65.8	8-14-95 EPA 200.7
Manganese as Mn, mg/1	0.041	8-14-95 EPA 200.7
Molybdenum as Mo, mg/1	<.01	8-14-95 EPA 200.7
Nickel as Ni, mg/l	<.01	8-14-95 EPA 200.7
Phosphorus as P, mg/1	<.02	8-23-95 SM 4500E
Potassium as K, mg/1	3.81	8-14-95 EPA 200.7
Selenium as Se, mg/l	<.04	8-14-95 EPA 200.7
Sodium as Na, mg/l	179	8-14-95 EPA 200.7
Zinc as Zn, mg/l	0.012	8-14-95 EPA 200.7

Approved By:

801 262 7299 PHONE 801 262 7378 FAX



TO: EarthFax Engineering
7324 So. 1300 E. STE 100
Midvale, Utah 84047

SAMPLE ID: Lab #U031447

PROJECT: SLB Seep & Spring/Horse Canyon: 10

DATE SAMPLED: 8-10-95
DATE SUBMITTED: 8-11-95

INCORPORATED
MAY 1 8 2007

Div. of Oil, Gas & Mining

CERTIFICATE OF ANALYSIS

PARAMETER	DETECTED	DATE ANA	LYZED/METHOD
Bicarbonate as HCO ₃ , mg/1	472	8-16-95	SM17 2320B
Carbonate as CO ₃ , mg/l	<1	8-16-95	SM17 2320B
Ammonia as NH ₃ -N, mg/l	<,4	8-21-95	SM17 4500B
Chloride as Cl, mg/l	11	8-15-95	
Fluoride as F, mg/l	<.2	8-15-95	EPA 340.2
Hardness as CaCO ₃ , mg/l	440	8-17-95	EPA 130.2
Mercury as Hg, mg/l	<.0002	8-17-95	EPA 245.1
Nitrate as NO ₃ -N, mg/l	0.052	8-22-95	EPA 353.1
Nitrite as NO ₂ -N, mg/l	0.0056	8-11-95	EPA 354.1
Sulfate as SO ₄ , mg/l	184	8-14-95	SM 4500
Sulfide as S, mg/l	<.1	8-17-95	EPA 376.1
TDS, mg/1	634	8-15-95	EPA 160.1
Aluminum as Al, mg/l	0.030	8-14-95	EPA 200.7
Arsenic as As, mg/l	<.04	8-14-95	EPA 200.7
Barium as Ba, mg/l	0.038	8-14-95	EPA 200.7
Boron as B, mg/1	0.061	8-14-95	EPA 200.7
Cadmium as Cd, mg/l	<.005	8-14-95	EPA 200.7
Calcium as Ca, mg/l	71.8	8-14-95	EPA 200.7
Chromium as Cr, mg/l	<.005		EPA 200.7
Copper as Cu, mg/1	<.01		EPA 200.7

Approved By:_

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801 262 7299 PHONE

6100 SOUTH STRATLER



TO: EarthFax Engineering
7324 So. 1300 E. STE 100
Midvale, Utah 84047

SAMPLE ID: Lab #U031447

PROJECT: SLB Seep & Spring/Horse Canyon: 10

DATE SAMPLED: 8-10-95
DATE SUBMITTED: 8-11-95

INCORPORATED
MAY 1 8 2007

Div. of Uii, Gas & Mining

CERTIFICATE OF ANALYSIS

PARAMETER	DETECTED	DATE ANALYZED/METHOD	
Iron as Fe, mg/1	0.039	8-14-95	EPA 200.7
Lead as Pb, mg/1	<.02	8-14-95	EPA 200.7
Magnesium as Mg, mg/1	58.0	8-14-95	EPA 200.7
Manganese as Mn, mg/1	<.01	8-14-95	EPA 200.7
Molybdenum as Mo, mg/l	<.01	8-14-95	EPA 200.7
Nickel as Ni, mg/l	<.01	8-14-95	EPA 200.7
Phosphorus as P, mg/1	<.02	8-23-95	SM 4500E
Potassium as K, mg/l	0.84	8-14-95	EPA 200.7
Selenium as Se, mg/l	<.04	8-14-95	EPA 200.7
Sodium as Na, mg/l	60.2	8-14-95	EPA 200.7
Zinc as Zn, mg/l	<.01	8-14-95	EPA 200.7

Approved By

801 262 7299 PHONE 801 262 7378 FAX



TO: EarthFax Engineering

7324 So. 1300 E. STE 100 Midvale, Utah 84047

SAMPLE ID: Lab #U031448

PROJECT: SLB Seep & Spring/Horse Canyon: #16

DATE SAMPLED: 8-10-95
DATE SUBMITTED: 8-11-95

INCORPORATED

MAY 1 8 2007

Div. of Oil, Gas & Mining

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	DETECTED	DATE ANA	LYZED/METHOD
Bicarbonate as HCO ₃ , mg/l	530	8-16-95	SM17 2320B
Carbonate as CO ₃ , mg/l	<1	8-16-95	
Ammonia as NH ₃ -N, mg/1	<.4	8-21-95	
Chloride as Cl, mg/l	17	8-15-95	EPA 325.3
Fluoride as F, mg/l	<.2	8-15-95	
Hardness as CaCO ₃ , mg/l	350	8-17-95	EPA 130.2
Mercury as Hg, mg/1	<.0002	8-17-95	
Nitrate as NO ₃ -N, mg/l	0.014	8-22-95	EPA 353.1
Nitrite as NO ₂ -N, mg/l	0.0056	8-11-95	EPA 354.1
Sulfate as SO ₄ , mg/1	134	8-14-95	SM 4500
Sulfide as S, mg/l	0.15	8-17-95	EPA 376.1
TDS, mg/1	627	8-15-95	EPA 160.1
Aluminum as Al, mg/l	0.018	8-14-95	EPA 200.7
Arsenic as As, mg/l	<.04	8-14-95	EPA 200.7
Barium as Ba, mg/l	0.059	8-14-95	EPA 200.7
Boron as B, mg/l	0.12	8-14-95	EPA 200.7
Cadmium as Cd, mg/1	<.005	8-14-95	EPA 200.7
Calcium as Ca, mg/l	49.4	8-14-95	EPA 200.7
Chromium as Cr, mg/l			EPA 200.7
Copper as Cu, mg/1	<.01		EPA 200.7
		. 1	

Approved By:

801 262 7299 PHONE 801 262 7378 FAX



T0: EarthFax Engineering

7324 So. 1300 E. STE 100 Midvale, Utah 84047

SAMPLE ID: Lab #U031448

PROJECT: SLB Seep & Spring/Horse Canyon: #16

DATE SAMPLED: 8-10-95 DATE SUBMITTED: 8-11-95 INCORPORATED MAY 1 8 2007.

Div. of Oil, Gas & Mining

CERTIFICATE OF ANALYSIS

PARAMETER	<u>DETECTED</u>	DATE ANA	LYZED/METHOD
Iron as Fe, mg/l	0.115	8-14-95	EPA 200.7
Lead as Pb, mg/l	0.024	8-14-95	EPA 200.7
Magnesium as Mg, mg/l	54.1	8-14-95	EPA 200.7
Manganese as Mn, mg/l	<.01	8-14-95	EPA 200.7
Molybdenum as Mo, mg/l	<.01	8-14-95	EPA 200.7
Nickel as Ni, mg/l	<.01	8-14-95	EPA 200.7
Phosphorus as P, mg/1	<.02	8-23-95	SM 4500E
Potassium as K, mg/1	0.58	8-14-95	EPA 200.7
Selenium as Se, mg/l	<.04	8-14-95	EPA 200.7
Sodium as Na, mg/1	105	8-14-95	EPA 200.7
Zinc as Zn, mg/1	0.028	8-14-95	EPA 200.7

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7324 So. 1300 E. STĚ 100 Midvale, Utah 84047

SAMPLE ID: Lab #U031449

PROJECT: SLB Seep & Spring/Horse Canyon: #14

DATE SAMPLED: 8-10-95 DATE SUBMITTED: 8-11-95 INCORPORATED MAY 1 8 2007

Div. of Oil, Gas & Mining

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	DATE ANA	LYZED/METHOD
Bicarbonate as HCO ₃ , mg/1	593	8-16-95	SM17 2320B
Carbonate as CO ₃ , mg/1	<1	8-16-95	SM17 2320B
Ammonia as NH ₃ -N, mg/1	<.4	8-21-95	SM17 4500B
Chloride as C1, mg/1	44	8-15-95	EPA 325.3
Fluoride as F, mg/1	0.23	8-15-95	EPA 340.2
Hardness as CaCO₃, mg/l	556	8-17-95	EPA 130.2
Mercury as Hg, mg/1	<.0002	8-17-95	EPA 245.1
Nitrate as NO ₃ -N, mg/1	<.01	8-22-95	EPA 353.1
Nitrite as NO_z -N, mg/1	0.0078	8-11-95	EPA 354.1
Sulfate as SO ₄ , mg/l	700	8-14-95	SM 4500
Sulfide as S, mg/l	0.25	8-17-95	EPA 376.1
TDS, mg/l	1,500	8-15-95	EPA 160.1
Aluminum as Al, mg/l	0.134	8-14-95	EPA 200.7
Arsenic as As, mg/1	<.04	8-14-95	EPA 200.7
Barium as Ba, mg/l	0.091	8-14-95	EPA 200.7
Boron as B, mg/1	0.23	8-14-95	EPA 200.7
Cadmium as Cd, mg/l	<.005	8-14-95	EPA 200.7
Calcium as Ca, mg/l	57.8	8-14-95	EPA 200.7
Chromium as Cr, mg/l	<.01	8-14-95	EPA 200.7
Copper as Cu, mg/1	<.01	8-14-95	EPA 200.7

801 262 7299 PHONE 801 262 7378 FAX



T0: EarthFax Engineering 7324 So. 1300 E. STE 100 Midvale, Utah 84047

SAMPLE ID: Lab #U031449

PROJECT: SLB Seep & Spring/Horse Canyon: #14

DATE SAMPLED: 8-10-95 DATE SUBMITTED: 8-11-95

CERTIFICATE OF ANALYSIS

PARAMETER	<u>DETECTED</u>	DATE ANAI	LYZED/METHOD
Iron as Fe, mg/l	0.162	8-14-95	EPA 200.7
Lead as Pb, mg/1	<.02	8-14-95	EPA 200.7
Magnesium as Mg, mg/l	101	8-14-95	EPA 200.7
Manganese as Mn, mg/1	0.013	8-14-95	EPA 200.7
Molybdenum as Mo, mg/1	<.01	8-14-95	EPA 200.7
Nickel as Ni, mg/1	<.01	8-14-95	EPA 200.7
Phosphorus as P, mg/l	0.023	8-23-95	SM 4500E
Potassium as K, mg/1	1.35	8-14-95	EPA 200.7
Selenium as Se, mg/l	<.04	8-14-95	EPA 200.7
Sodium as Na, mg/1	286	8-14-95	EPA 200.7
Zinc as Zn, mg/1	0.024	8-14-95	EPA 200.7

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Approved By: The Waskman

Harth? Lt Engineering, Inc. 7524 do. Union Fark Avenue Guito 100 Hidvale, 31 54047 (501) 551-1555

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Page __/_ of _/_

Sampling Company: 5 42745AY	Sampling Personnel:
Project Name: 1613- (-19-17- 50) = 5000	Project Number: 8/17 4 2 2
Analytical Laboratory: June high	Date of Shipment/Delivery:
Method of Shipment/Delivery:	Airbill Number:

Field Sample No.	Date Sampled	Time Sampled	Sample Type	No. of Containers	Remarks
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TO: EarthFax Engineering 7324 So. 1300 E. STE 100

Midvale, Utah 84047

INCOPPORATED

MAY 1 8 2007

SAMPLE ID: Lab #U031343

PROJECT: Horse Canyon Seep & Spring: HCSW-1

DATE SAMPLED: 8-08-95
DATE SUBMITTED: 8-10-95

Div. of Oil, Gas & Mining

CERTIFICATE OF ANALYSIS

PARAMETER	DETECTED	DATE ANALYZED/METHOD
Bicarbonate as HCO3, mg/1	592	8-16-95 SM17 2320B
Carbonate as CO ₃ , mg/l	<1	8-16-95 SM17 2320B
Ammonia as NH ₃ -N, mg/l	<.4	8-17-95 SM 4500
Chloride as C1, mg/1	19	8-15-95 EPA 325.3
Fluoride as F, mg/l	0.28	8-15-95 EPA 340.2
Hardness as CaCO₃, mg/1	407	8-17-95 EPA 130.2
Mercury as Hg, mg/1	<.0002	8-15-95 EPA 245.1
Nitrate as NO ₃ -N, mg/l	0.15	8-16-95 EPA 353.1
Nitrite as NO ₂ -N, mg/l	0.0089	8-10-95 EPA 354.1
Ortho Phosphate as PO ₄ -P, mg/l	<.01	8-11-95 SM17 4500E
Phosphorus as P (T), mg/1	<.02	8-22-95 SM17 4500E
Sulfate as SO ₄ , mg/l	299	8-14-95 SM 4500
Sulfide as S, mg/1	<.1	8-17-95 EPA 376.1
TDS, mg/l	924	8-14-95 EPA 160.1
Aluminum as Al, mg/l	0.059	8-14-95 EPA 200.7
Arsenic as As, mg/l	<.04	8-14-95 EPA 200.7
Barium as Ba, mg/l	0.055	8-14-95 EPA 200.7
Boron as B, mg/1	0.22	8-14-95 EPA 200.7
Cadmium as Cd, mg/l	<.01	8-14-95 EPA 200.7
		, /

Approved By:

801 262 7299 PHONE 801 262 7378 FAX



T0:

EarthFax Engineering 7324 So. 1300 E. STE 100 Midvale, Utah 84047

SAMPLE ID: Lab #U031343

PROJECT: Horse Canyon Seep & Spring: HCSW-1

DATE SAMPLED: 8-08-95 DATE SUBMITTED: 8-10-95 INCORPORATED

MAY 1 8 2007

Div. or Un, Gas & Mining

CERTIFICATE OF ANALYSIS

PARAMETER	<u>DETECTED</u>	DATE ANALYZED/METHOD
Calcium as Ca, mg/l	54	8-14-95 EPA 200.7
Chromium as Cr, mg/l	<.01	8-14-95 EPA 200.7
Copper as Cu, mg/l	<.01	8-14-95 EPA 200.7
Iron as Fe, mg/l	0.076	8-14-95 EPA 200.7
Lead as Pb, mg/1	<.02	8-14-95 EPA 200.7
Magnesium as Mg, mg/1	66	8-14-95 EPA 200.7
Manganese as Mn, mg/l	0.016	8-14-95 EPA 200.7
Molybdenum as Mo, mg/l	<.01	8-14-95 EPA 200.7
Nickel as Ni, mg/l	<.01	8-14-95 EPA 200.7
Potassium as K, mg/l	4.3	8-14-95 EPA 200.7
Selenium as Se, mg/l	<.04	8-14-95 EPA 200.7
Sodium as Na, mg/1	170	8-14-95 EPA 200.7
Zinc as Zn, mg/1	0.076	8-14-95 EPA 200.7
Oil & Grease, mg/l	<5	8-15-95 EPA 413.1



EarthFax Engineering 7324 So. 1300 E. STE 100 T0:

Midvale, Utah 84047

SAMPLE ID: Lab #U031345

PROJECT: Horse Canyon Seep & Spring: H-2

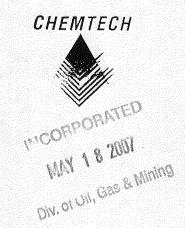
DATE SAMPLED: 8-08-95 DATE SUBMITTED: 8-10-95 NICORPORATED

MAY 1 8 2007

Div. of Oil, Gas & Mining

CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	DETECTED	DATE ANALYZED/METHOD
Bicarbonate as HCO ₃ , mg/l	561	8-16-95 SM17 2320B
Carbonate as CO ₃ , mg/l	<1	8-16-95 SM17 2320B
Ammonia as NH ₃ -N, mg/l	<.4	8-17-95 SM 4500
Chloride as Cl, mg/l	17	8-15-95 EPA 325.3
Fluoride as F, mg/l	<.2	8-15-95 EPA 340.2
Hardness as CaCO ₃ , mg/l	393	8-17-95 EPA 130.2
Mercury as Hg, mg/1	<.0002	8-15-95 EPA 245.1
Nitrate as NO ₃ -N, mg/l	0.307	8-16-95 EPA 353.1
Nitrite as NO ₂ -N, mg/l	0.0052	8-10-95 EPA 354.1
Ortho Phosphate as PO ₄ -P, mg/1	<.01	8-11-95 SM17 4500E
Phosphorus as P (T), mg/l	<.02	8-22-95 SM17 4500E
Sulfate as SO ₄ , mg/l	260	8-14-95 SM 4500
Sulfide as S, mg/1	0.17	8-17-95 EPA 376.1
TDS, mg/1	823	8-14-95 EPA 160.1
Aluminum as Al, mg/l	<.01	8-14-95 EPA 200.7
Arsenic as As, mg/l	<.04	8-14-95 EPA 200.7
Barium as Ba, mg/l	0.022	8-14-95 EPA 200.7
Boron as B, mg/l	0.15	8-14-95 EPA 200.7
Cadmium as Cd, mg/1	<.01	8-14-95/ EPA 200.7
		. /



TO: EarthFax Engineering 7324 So. 1300 E. STE 100 Midvale, Utah 84047

SAMPLE ID: Lab #U031345

PROJECT: Horse Canyon Seep & Spring: H-2

DATE SAMPLED: 8-08-95
DATE SUBMITTED: 8-10-95

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CERTIFICATE OF ANALYSIS

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<u>PARAMETER</u>	<u>DETECTED</u>	DATE AN	IALYZED/METHOD
Calcium as Ca, mg/1	46	8-14-95	
Chromium as Cr, mg/1	<.01	8-14-95	EPA 200.7
Copper as Cu, mg/1	<.01		EPA 200.7
Iron as Fe, mg/1	0.023	8-14-95	
Lead as Pb, mg/1	<.02	8-14-95	
Magnesium as Mg, mg/l	65	8-14-95	
Manganese as Mn, mg/l	<,01	8-14-95	
Molybdenum as Mo, mg/l	<.04	8-14-95	
Nickel as Ni, mg/l	<.01	8-14-95	
Potassium as K, mg/1	1.4	8-14-95	
Selenium as Se, mg/l	<.04	8-14-95	
Sodium as Na, mg/1	150	8-14-95	
Zinc as Zn, mg/l	0.058	8-14-95	EPA 200.7

Approved By:

Jack Workham



TO: EarthFax Engineering
7324 So. 1300 E. STE 100
Midvale, Utah 84047

SAMPLE ID: Lab #U031344

PROJECT: Horse Canyon Seep & Spring: H-4

DATE SAMPLED: 8-08-95
DATE SUBMITTED: 8-10-95

INCORPORATED

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MAY 18 2001

Div. of Oil, Ges & Mining

CERTIFICATE OF ANALYSIS

PARAMETER	<u>DETECTED</u>	DATE ANALYZED/METHOD
Bicarbonate as HCO ₃ , mg/1	635	8-16-95 SM17 2320B
Carbonate as CO ₃ , mg/l	<1	8-16-95 SM17 2320B
Ammonia as NH ₃ -N, mg/l	<.4	8-17-95 SM 4500
Chloride as C1, mg/1	13	8-15-95 EPA 325.3
Fluoride as F, mg/l	<2	8-15-95 EPA 340.2
Hardness as CaCO ₃ , mg/l	376	8-17-95 EPA 130.2
Mercury as Hg, mg/1	<.0002	8-15-95 EPA 245.1
Nitrate as NO ₃ -N, mg/l	0.083	8-16-95 EPA 353.1
Nitrite as NO₂-N, mg/l	0.0064	8-10-95 EPA 354.1
Ortho Phosphate as PO ₄ -P, mg/l	0.107	8-11-95 SM17 4500E
Phosphorus as P (T), mg/1	0.11	8-22-95 SM17 4500E
Sulfate as SO ₄ , mg/l	212	8-14-95 SM 4500
Sulfide as S, mg/l	<.1	8-17-95 EPA 376.1
TDS, mg/1	821	8-14-95 EPA 160.1
Aluminum as Al, mg/l	1.02	8-14-95 EPA 200.7
Arsenic as As, mg/l	<.04	8-14-95 EPA 200.7
Barium as Ba, mg/l	0.081	8-14-95 EPA 200.7
Boron as B, mg/l	0.14	8-14-95 EPA 200.7
Cadmium as Cd, mg/l	<.01	8-14-95 EPA 200.7

Approved By:



TO: EarthFax Engineering
7324 So. 1300 E. STE 100
Midvale, Utah 84047

SAMPLE ID: Lab #U031344

PROJECT: Horse Canyon Seep & Spring: H-4

DATE SAMPLED: 8-08-95
DATE SUBMITTED: 8-10-95

INCORPORATED
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CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	<u>DETECTED</u>	DATE ANALYZED/METHOD
Calcium as Ca, mg/l	60	8-14-95 EPA 200.7
Chromium as Cr, mg/1	<.01	8-14-95 EPA 200.7
Copper as Cu, mg/1	<.01	8-14-95 EPA 200.7
Iron as Fe, mg/l	3.5	8-14-95 EPA 200.7
Lead as Pb, mg/l	<.02	8-14-95 EPA 200.7
Magnesium as Mg, mg/l	66	8-14-95 EPA 200.7
Manganese as Mn, mg/l	0.13	8-14-95 EPA 200.7
Molybdenum as Mo, mg/l	<.04	8-14-95 EPA 200.7
Nickel as Ni, mg/l	<.01	8-14-95 EPA 200.7
Potassium as K, mg/1	1.5	8-14-95 EPA 200.7
Selenium as Se, mg/1	<.04	8-14-95 EPA 200.7
Sodium as Na, mg/1	105	8-14-95 EPA 200.7
Zinc as Zn, mg/1	0.13	8-14-95 EPA 200.7

Approved By:

Jel Wy Kham

EarthFax Engineering 7324 So. 1300 E. STE 100 T0: Midvale, Utah 84047

SAMPLE ID: Lab #U031346

PROJECT: Horse Canyon Seep & Spring: H-11

DATE SAMPLED: 8-08-95 DATE SUBMITTED: 8-10-95 INCORPORATED

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CERTIFICATE OF ANALYSIS

PARAMETER	DETECTED	DATE ANA	LYZED/METHOD
Bicarbonate as HCO ₃ , mg/l	590	8-16-95	
Carbonate as CO ₃ , mg/1	<1 <1	8-16-95	
Ammonia as NH ₃ -N, mg/1	<.4	8-17-95	
Chloride as C1, mg/1	11	8-15-95	EPA 325.3
Fluoride as F, mg/l	<.2	8-15-95	EPA 340.2
Hardness as CaCO ₃ , mg/l	468		
Mercury as Hg, mg/l	<.0002		EPA 130.2
Nitrate as NO ₃ -N, mg/1	0.021		EPA 245.1
Nitrite as NO ₂ -N, mg/l	0.0071		EPA 353.1
Ortho Phosphate as PO ₄ -P, mg/l	<.01		EPA 354.1
Phosphorus as P (T), mg/l		8-11-95	SM17 4500E
	<.02		SM17 4500E
Sulfate as SO ₄ , mg/1	208	8-14-95	SM 4500
Sulfide as S, mg/1	<.1	8-17-95	EPA 376.1
TDS, mg/]	762	8-14-95	EPA 160.1
Aluminum as Al, mg/l	0.064	8-14-95	EPA 200.7
Arsenic as As, mg/l	<.04		EPA 200.7
Barium as Ba, mg/1	0.065		EPA 200.7
Boron as B, mg/l	0.10		EPA 200.7
Cadmium as Cd, mg/7	<.01		EPA 200.7
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801 262 7299 PHONE 801 262 7378 FAX



TO: EarthFax Engineering 7324 So. 1300 E. STE 100 Midvale, Utah 84047

SAMPLE ID: Lab #U031346

PROJECT: Horse Canyon Seep & Spring: H-11

DATE SAMPLED: 8-08-95
DATE SUBMITTED: 8-10-95



CERTIFICATE OF ANALYSIS

<u>PARAMETER</u>	DETECTED	DATE ANALYZED/METHOD
Calcium as Ca, mg/l	66	8-14-95 EPA 200.7
Chromium as Cr, mg/1	<.01	8-14-95 EPA 200.7
Copper as Cu, mg/1	<.01	8-14-95 EPA 200.7
Iron as Fe, mg/l	0.11	8-14-95 EPA 200.7
Lead as Pb, mg/1	<.02	8-14-95 EPA 200.7
Magnesium as Mg, mg/1	75	8-14-95 EPA 200.7
Manganese as Mn, mg/l	0.017	8-14-95 EPA 200.7
Molybdenum as Mo, mg/l	<.04	8-14-95 EPA 200.7
Nickel as Ni, mg/l	<.01	8-14-95 EPA 200.7
Potassium as K, mg/l	2.2	8-14-95 EPA 200.7
Selenium as Se, mg/l	<.04	8-14-95 EPA 200.7
Sodium as Na, mg/1	97	8-14-95 EPA 200.7
Zinc as Zn, mg/1	0.067	8-14-95 EPA 200.7

Approved By:

Jel Workmann



TO: EarthFax Engineering
7324 So. 1300 E. STE 100
Midvale, Utah 84047

SAMPLE ID: Lab #U031347

PROJECT: Horse Canyon Seep & Spring: H-13

DATE SAMPLED: 8-08-95
DATE SUBMITTED: 8-10-95

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CERTIFICATE OF ANALYSIS

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PARAMETER	<u>DETECTED</u>	DATE ANA	DATE ANALYZED/METHOD		
Bicarbonate as HCO ₃ , mg/1	611	8-16-95			
Carbonate as CO ₃ , mg/1	<1	8-16-95	SM17 2320B		
Ammonia as NH_3-N , $mg/1$	<.4	8-17-95			
Chloride as Cl, mg/l	23	8-15-95			
Fluoride as F, mg/l	0.21	8-15-95			
Hardness as CaCO ₃ , mg/1	646	8-17-95	EPA 130.2		
Mercury as Hg, mg/]	<.0002	8-15-95	EPA 245.1		
Nitrate as NO ₃ -N, mg/7	<.02	8-16-95	EPA 353.1		
Nitrite as NO ₂ -N, mg/l	0.013	8-10-95	EPA 354.1		
Ortho Phosphate as PO ₄ -P, mg/1	<.01	8-11-95	SM17 4500E		
Phosphorus as P (T), mg/1	<.02	8-22-95	SM17 4500E		
Sulfate as SO4, mg/l	648	8-14-95	SM 4500		
Sulfide as S, mg/l	<.1	8-17-95	EPA 376.1		
TDS, mg/]	1,400	8-14-95	EPA 160.1		
Aluminum as Al, mg/l	0.021	8-14-95	EPA 200.7		
Arsenic as As, mg/l	<.04	8-14-95	EPA 200.7		
Barium as Ba, mg/l	0.081	8-14-95	EPA 200.7		
Boron as B, mg/l	0.22	8-14-95	EPA 200.7		
Cadmium as Cd, mg/7	<.01	8-14-95	EPA 200.7		
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Approved By:

801 262 7299 PHONE 801 262 7378 FAX



Date: 11/8/95

To: EARTH FAX ENGINEERING 7324 So. 1300 E. STE 100 Midvale, UT 84047

Group #: 4814

Lab #: 95-U035460 Project: HORSE CANYON Sample Desc: H-13 Date Sampled: 10/18/95

Date Submitted: 10/19/95



CERTIFICATE OF ANALYSIS

PARAMETER	RESULT	MDL	DATE ANALYZED	METHOD	ANALYST
INORGANIC PARAMETERS					
Magnesium (T), as Mg, mg/L	136	0.1	10/30/95 15:14	EPA 200.7	LH
Manganese (T), as Mn, mg/L	0.76	0.01	10/30/95 15:14	EPA 200.7	LH
Molybdnum (T), as Mo, mg/L	< 0.01	0.01	10/30/95 15:14	EPA 200.7	LH
Nickel (T), as Ni, mg/L	0.03	0.01	10/30/95 15:14	EPA 200.7	LH
Potassium (T), as K, mg/L	6.5	0.1	10/30/95 15:14	EPA 200.7	LH
Selenium (T), as Se, mg/L	< 0.04	0.04	10/30/95 15:14	EPA 200.7	LH
Sodium (T), as Na, mg/L	208	0.2	10/30/95 15:14	EPA 200.7	LH
Zinc (T), as Zn, mg/L	0.08	0.02	10/30/95 15:14	EPA 200.7	LH

NOTE: Nitrite was run past holding time due to late arrival and size of project.

Approved By:

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801 262 7299 PHONE ANT DED TOTA FAY

6100 SOUTH STRATLER CLIT LAVE CITY HTAU 01107 ROOS



To: EARTH FAX ENGINEERING 7324 So. 1300 E. STE 100

Midvale, UT 84047

Group #: 4814

Lab #: 95-U035459 Project: HORSE CANYON Sample Desc: H-14

Date Sampled: 10/18/95 Date Submitted: 10/19/95 Date: 11/8/95

INCORPORATED

INCORPORATED

MAY 18 2007

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ON. of Oil, Gas & Mining

CERTIFICATE OF ANALYSIS

	DATE				
PARAMETER	RESULT	MDL	ANALYZED	METHOD	ANALYST
INORGANIC PARAMETERS					
Bicarbonate as HCO3, mg/L	684	1	10/23/95 10:00	SM 2320B	TM
Carbonate as CO3, mg/L	< 1	1	10/23/95 10:00		TM
Ammonia-Nitrogen, mg/L	< 0.4	0.4	10/27/95 12:40		
Chloride, mg/L	22	1	11/ 4/95 10:00		TM
Fluoride, mg/L	0.2	0.2	10/31/95 11:40	EPA 340.2	DI
Hardness, EDTA Titration, mg/L	761	10	10/25/95 9:30	EPA 130.2	TM
Mercury, as Hg, mg/L	< 0.0002	0.0002	11/ 2/95 9:05	EPA 245.1	TH
Nitrate, Nitrogen, mg/L	< 0.02	0.02	10/28/95 14:45	EPA 353.1	TH
Nitrite, Nitrogen, mg/L	0.010	0.005	10/20/95 9:30	EPA 354.1	KA
Phosphorus, Total, mg/L	0.04	0.01	10/25/95 15:00	SM 4500-P	KA
Sulfate, mg/L	617	30	11/ 2/95 11:30	EPA 375.4	TM
Sulfide, mg/L	< 0.1	0.1	10/23/95 17:00	EPA 376.1	KA
Total Dissolved Solids, mg/L	1,440	10	10/23/95 15:30	EPA 160.1	MA
Aluminum (T), as Al, mg/L	2.03	0.02	10/30/95 15:12	EPA 200.7	LH
Arsenic (T), as As, mg/L	< 0.02	0.02	10/30/95 15:12	EPA 200.7	LH
Barium (T), as Ba, mg/L	0.07	0.02	10/30/95 15:12	EPA 200.7	LH
Boron (T), as B, mg/L	0.2	0.1	10/30/95 15:12	EPA 200.7	LH
Cadmium (T), as Cd, mg/L	< 0.005	0.005	10/30/95 15:12	EPA 200.7	LH
Calcium (T), as Ca, mg/L	72.3	0.2	10/30/95 15:12	EPA 200.7	LH
Chromium(T), as Cr, mg/L	0.005	0.005	10/30/95 15:12	EPA 200.7	LH
Copper (T), as Cu, mg/L	0.01	0.01	10/30/95 15:12	EPA 200.7	LH
Iron (T), as Fe, mg/L	3.49	0.04	10/30/95 15:12	EPA 200.7	LH
Lead (T), as Pb, mg/L	< 0.01	0.01	10/30/95 15:12	EPA 200.7	LH

Approved By:

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To: EARTH FAX ENGINEERING 7324 So. 1300 E. STE 100 Midvale, UT 84047

Group #: 4814

Lab #: 95-U035459 Project: HORSE CANYON

Sample Desc: H-14 Date Sampled: 10/18/95 Date Submitted: 10/19/95 Date: 11/8/95

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DIV. Of Oil. Gas & Mining

CERTIFICATE OF ANALYSIS

PARAMETER	RESULT	MDL	DATE ANALYZED	METHOD	ANALYST
INORGANIC PARAMETERS					
Magnesium (T), as Mg, mg/L	109	0.1	10/30/95 15:12	EPA 200.7	LH
Manganese (T), as Mn, mg/L	0.24	0.01	10/30/95 15:12	EPA 200.7	
Molybdnum (T), as Mo, mg/L	< 0.01	0.01	10/30/95 15:12	EPA 200.7	
Nickel (T), as Ni, mg/L	< 0.01	0.01	10/30/95 15:12	EPA 200.7	
Potassium (T), as K, mg/L	4.1	0.1	10/30/95 15:12	EPA 200.7	LH
Selenium (T), as Se, mg/L	< 0.04	0.04	10/30/95 15:12	EPA 200.7	LH
Sodium (T), as Na, mg/L	195	0.2	10/30/95 15:12	EPA 200.7	LH
Zinc (T), as Zn, mg/L	< 0.02	0.02	10/30/95 15:12	EPA 200.7	LH

NOTE: Nitrite was run past holding time due to late arrival and size of project.

Approved By:

{generic.rpt}

801 262 7299 PHONE 801 262 7378 FAX 6100 SOUTH STRATLER SALT LAKE CITY UTAH 84107 6905



To: EARTH FAX ENGINEERING 7324 So. 1300 E. STE 100 Midvale, UT 84047

Group #: 4814 Lab #: 95-U035463 Project: HORSE CANYON Sample Desc: H-18 Date Sampled: 10/18/95 Date Submitted: 10/19/95 Date: 11/8/95



CERTIFICATE OF ANALYSIS

PARAMETER	DATE					
	RESULT	MDL	ANALYZED	METHOD	ANALYST	
INORGANIC PARAMETERS						
Bicarbonate as HCO3, mg/L	640	1	10/23/95 10:00	SM 2320B	TM	
Carbonate as CO3, mg/L	< 1	1	10/23/95 10:00	SM 2320B	TM	
Ammonia-Nitrogen, mg/L	< 0.4	0.4	10/27/95 12:40			
Chloride, mg/L	23	1	11/ 4/95 10:00	EPA 325.3	TM	
Fluoride, mg/L	0.2	0.2	10/31/95 11:40	EPA 340.2	DI	
Hardness, EDTA Titration, mg/L	426	1.0	10/25/95 9:30	EPA 130.2	TM	
Mercury, as Hg, mg/L	0.0003	0.0002	11/ 6/95 11:45	EPA 245.1	TH	
Nitrate, Nitrogen, mg/L	< 0.08	0.08	10/28/95 14:45	EPA 353.1	TH	
Nitrite, Nitrogen, mg/L	0.011	0.005	10/20/95 9:30	EPA 354.1	KA	
Phosphorus, Total, mg/L	0.02	0.01	10/25/95 15:00	SM 4500-P	KA	
Sulfate, mg/L	292	20	11/ 2/95 11:30	EPA 375.4	TM	
Sulfide, mg/L	0.10	0.1	10/23/95 17:00	EPA 376.1	KA	
Total Dissolved Solids, mg/L	934	10	10/23/95 15:30	EPA 160.1	MA	
Aluminum (T), as Al, mg/L	< 0.02	0.02	10/30/95 15:27	EPA 200.7	LH	
Arsenic (T), as As, mg/L	< 0.02	0.02	10/30/95 15:27	EPA 200.7	LH	
Barium (T), as Ba, mg/L	0.09	0.02	10/30/95 15:27	EPA 200.7	LH	
Boron (T), as B, mg/L	0.3	0.1	10/30/95 15:27	EPA 200.7	LH	
Cadmium (T), as Cd, mg/L	< 0.005	0.005	10/30/95 15:27	EPA 200.7	LH	
Calcium (T), as Ca, mg/L	59.2	0.2	10/30/95 15:27	EPA 200.7	LH	
Chromium(T), as Cr, mg/L	< 0.005	0.005	10/30/95 15:27	EPA 200.7	LH	
Copper (T), as Cu, mg/L	< 0.01	0.01	10/30/95 15:27	EPA 200.7	LH	
Iron (T), as Fe, mg/L	< 0.04	0.04	10/30/95 15:27	EPA 200.7	LH	
Lead (T), as Pb, mg/L	< 0.01	0.01	10/30/95 15:27	EPA 200.7	LH	

Approved By:

2 June

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To: EARTH FAX ENGINEERING 7324 So. 1300 E. STE 100 Midvale, UT 84047

Group #: 4814

Lab #: 95-U035463 Project: HORSE CANYON Sample Desc: H-18

Date Sampled: 10/18/95 Date Submitted: 10/19/95 Date: 11/8/95

INCORPORATED MAY 1 8 2007 Div. of Oil, Gas & Mining

CERTIFICATE OF ANALYSIS

PARAMETER	RESULT	MDL	DATE ANALYZED	METHOD	ANALYST
INORGANIC PARAMETERS					
Magnesium (T), as Mg, mg/L	71.3				
		0.1	10/30/95 15:27	EPA 200.7	LH
Manganese (T), as Mn, mg/L	< 0.01	0.01	10/30/95 15:27	EPA 200.7	LH
Molybdnum (T), as Mo, mg/L	0.02	0.01	10/30/95 15:27	EPA 200.7	LH
Nickel (T), as Ni, mg/L	< 0.01	0.01	10/30/95 15:27	EPA 200.7	
Potassium (T), as K, mg/L	3.1	0.1	10/30/95 15:27	EPA 200.7	
Selenium (T), as Se, mg/L	< 0.04	0.04	10/30/95 15:27	EPA 200.7	LH
Sodium (T), as Na, mg/L	186	0.2	10/30/95 15:27	EPA 200.7	LH
Zinc (T), as Zn, mg/L	< 0.02	0.02	10/30/95 15:27	EPA 200.7	LH

NOTE: Nitrite was run past holding time due to late arrival and size of project.

Approved By: